XC Series Owner's Handbook

BARINA
& COMBO

HOLDEN

www.holden.com.au

Owner’s Name ....

Address ....

Town ....

State.........................Postcode ....

Model Name ....

Reg. No..........................Eng. No. ....

Odometer Reading ....

Date of Purchase ....

(17 character ISOVIN) Vehicle Identification Number

Vehicle Identification Certificate

Selling Retailer’s
Stamp and Signature ....

Holden Ltd. ABN 84 006 893 232 (hereinafter Holden).

Change of name, address or ownership

In the event of a Safety Recall or for various reasons, Holden may need to contact you, the owner of this vehicle. Also, if less than three years old, this vehicle will qualify for Roadside Assistance. Refer to Chapter 9. If you have recently changed your address or name or purchased this vehicle second-hand, please help us to help you by taking a few minutes to fill in and mail the form on the third page of this handbook. For information about Holden's privacy policy, please visit Holden's website at *www.holden.com.au* .

© 2003 Holden Ltd. Reproduction in whole or part is prohibited without written approval from Holden Ltd. ABN 84 006 893 232.

Part No. 92209324
September 2003,
Barina and Combo, print 1

CONTENTS

Dashboard layout, tilt steering, horn, gauges, warning / reminder lights, wipers and washers, exterior lights, radio / CD, ventilation, heating, air conditioning, demisting, triple information display, bonnet release, ignition, cruise control.

Dashboard 1

Keys and locks, safety rear-door switches, manual and power door locks, deadlocking, the remote control, tailgate lock, rear door lock, emergency procedure for electric door locks, electronic immobiliser.

Locks 2

Front seat adjustment, head restraint adjustment, seat folding, luggage compartment enlargement, transporting objects, seat belts, child restraints, park brake, interior lights, convenience features, windows, mirrors.

Know your vehicle 3

Engine starting, running-in, safety, manual transmission, automatic transmission, driving precautions, brake assist, tyre traction, snow chains, traction control, ABS braking.

Driving 4

Fuel, petrol filling, emission control, reducing fuel consumption.

Fuel 5

Accidents, flat tyre, towing your vehicle, engine overheating, flat battery, airbags, bulb replacement, fuses.

Emergencies 6

Miscellaneous checks, engine oil level, engine coolant level, brake fluid level, automatic transmission fluid level, washer fluid level, battery, tyres.

Weekly checks 7

Specifications, dimensions, identification labels.

Specifications 8

New vehicle warranty, parts and accessories warranty, warranty questions and answers, roadside assistance, customer assistance, Holden Retailers.

After sales 9

Loading the vehicle, roof racks, towing, safe towing tips, towing precautions.

Tow and load 10

Interior cleaning, exterior cleaning, cleaning products.

Cleaning 11

Service intervals, service light, additional service requirements, maintenance schedule, service times, service coupons.

Servicing 12

Index

We thank you for choosing Holden and want to assure you of our continuing interest in your motoring pleasure and satisfaction and compliment you on your choice.

This handbook applies to all the current Barina and Combo models. Therefore, due to different models and options, you may find reference in this handbook to some equipment not installed in your vehicle.

Please note that all information, illustrations and specifications in this handbook are based on the latest production information available at the time of printing. Holden reserves the right to make changes at any time without notice and without incurring any obligation.

CHANGE OF ADDRESS OR OWNERSHIP

Please fill in the form below if you have changed your name, address, bought the vehicle second-hand, or have become the new driver.

Holden requires these details in order to contact the operator in the event of a safety recall and to keep the initial 3 year Roadside Assistance details up to date (refer to Chapter 9). For information about Holden's privacy policy, please visit Holden's website at *www.holden.com.au*.

Please mail to the address on the back of this page.

Please tick the appropriate box:

☐ Original Owner ☐ Subsequent Owner

Title: (Mr, Mrs, Miss, Ms, etc.)

First name in full or initials

Surname or Name of Company / Institution / Government Department

Address

Street / box

City / Town

State

Postcode

1st contact phone no

2nd contact phone no

Email address

Vehicle registration number

Holden number (if fitted – refer to Chapter 8)

ISOVIN Number (refer to Chapter 8)

Place in an envelope and mail to:

The Manager – Warranty Administration
Service Department
Holden Limited
Box 548D, GPO.
Melbourne
Victoria, 3001

CHANGE OF ADDRESS OR OWNERSHIP

Please fill in the form below if you have changed your name, address, bought the vehicle second-hand, or have become the new driver.

Holden requires these details in order to contact the operator in the event of a safety recall and to keep the initial 3 year Roadside Assistance details up to date (refer to Chapter 9). For information about Holden's privacy policy, please visit Holden's website at *www.holden.com.au*.

Please mail to the address on the back of this page.

Please tick the appropriate box:

☐ Original Owner ☐ Subsequent Owner

Title: (Mr, Mrs, Miss, Ms, etc.)

First name in full or initials

Surname or Name of Company / Institution / Government Department

Address

Street / box

City / Town

State

Postcode

1st contact phone no

2nd contact phone no

Email address

Vehicle registration number

Holden number (if fitted – refer to Chapter 8)

ISOVIN Number (refer to Chapter 8)

Place in an envelope and mail to:

The Manager – Warranty Administration
Service Department
Holden Limited
Box 548D, GPO.
Melbourne
Victoria, 3001

CHANGE OF ADDRESS OR OWNERSHIP

Please fill in the form below if you have changed your name, address, bought the vehicle second-hand, or have become the new driver.

Holden requires these details in order to contact the operator in the event of a safety recall and to keep the initial 3 year Roadside Assistance details up to date (refer to Chapter 9). For information about Holden's privacy policy, please visit Holden's website at *www.holden.com.au*.

Please mail to the address on the back of this page.

Please tick the appropriate box:

☐ Original Owner ☐ Subsequent Owner

Title: (Mr, Mrs, Miss, Ms, etc.)

First name in full or initials

Surname or Name of Company / Institution / Government Department

Address

Street / box

City / Town

State

Postcode

1st contact phone no

2nd contact phone no

Email address

Vehicle registration number

Holden number (if fitted – refer to Chapter 8)

ISOVIN Number (refer to Chapter 8)

Place in an envelope and mail to:

The Manager – Warranty Administration
Service Department
Holden Limited
Box 548D, GPO.
Melbourne
Victoria, 3001

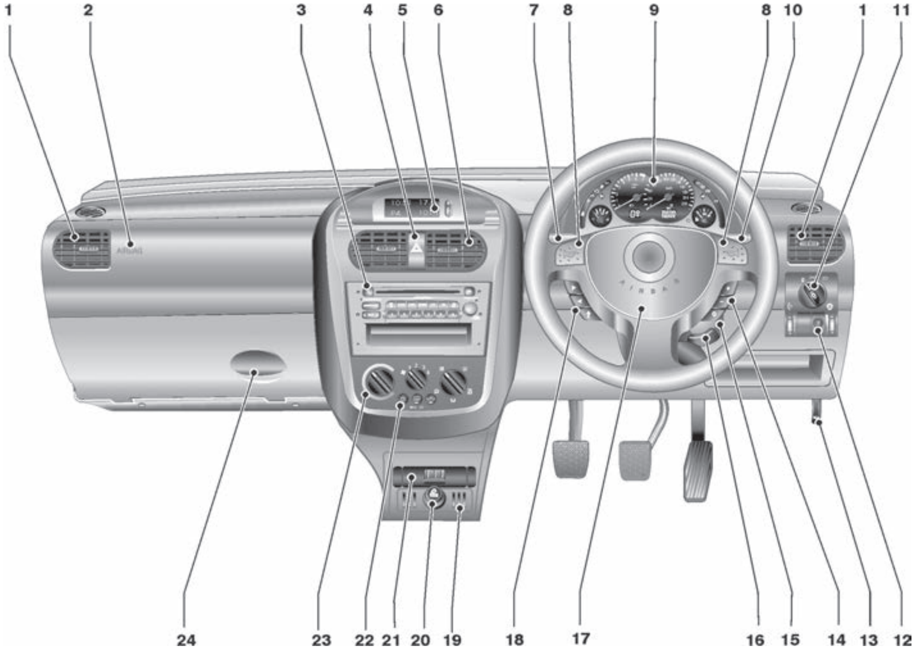
CHAPTER 1

Dashboard

Page

1-2 Layout
1-3 Tilt steering
1-3 Horn
1-4 Gauges
1-6 Warning / reminder lights
1-8 Wipers and washers
1-9 Exterior lights
1-12 Radio / CD player
1-12 Cup holder
1-13 Ventilation and heating
1-16 Air conditioning
1-17 Demisting
1-18 Cigarette lighter / ashtrays
1-19 Triple information display
1-20 Bonnet release
1-21 Ignition switch
1-22 Cruise control

LAYOUT



		Page
1	Side vents	1-13
2	Front passenger's airbag	6-16
3	Audio system	1-12
4	Hazard warning flasher	1-11
5	Triple information display	1-19
6	Centre vents	1-13
7	Lever for:	
	High / low beam	1-9
	Turn signals	1-11
	Cruise control	1-22
8	Horn	1-3
9	Gauges	1-4
10	Wipers and washers	1-8
11	Light switch	1-9
12	Panel for:	
	Dimming instruments	1-5
	Headlight range adjust	1-9
	Fog lights	1-10

		Page
13	Bonnet release	1-20
14	Audio switches RHS	1-12
15	Ignition switch	1-21
16	Steering tilt adjustment	1-3
17	Driver's airbag	6-16
18	Audio switches LHS	1-12
19	Coin holder	3-17
20	Cigarette lighter	1-18
21	Ashtray	1-18
22	Switches for:	
	Air intake	1-15
	Air conditioning	1-16
	Rear demister	1-17
23	Heater / ventilation controls	1-13
24	Glovebox	3-17

TILT STEERING AND HORN

Tilt steering

The lock lever is located directly beneath the ignition lock.

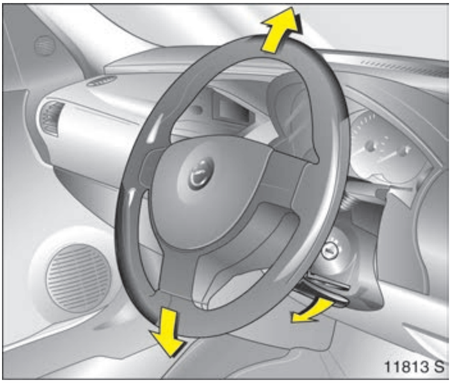
Move the lock lever downwards.

Grasp the steering wheel and move as required. It can be moved up or down.

When in position, move the lock lever back up as far as it will go. 'Jiggle' the steering wheel to ensure it has locked securely before driving.

WARNING:

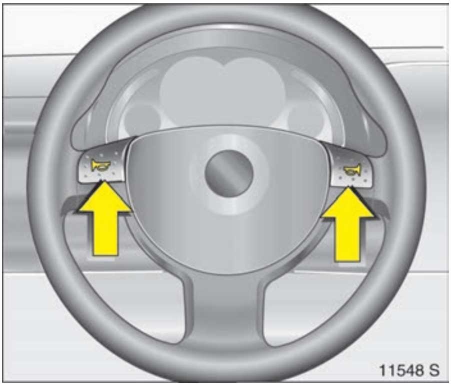
As with all the other driver position controls, do not attempt to adjust the steering wheel while driving.



11813 S

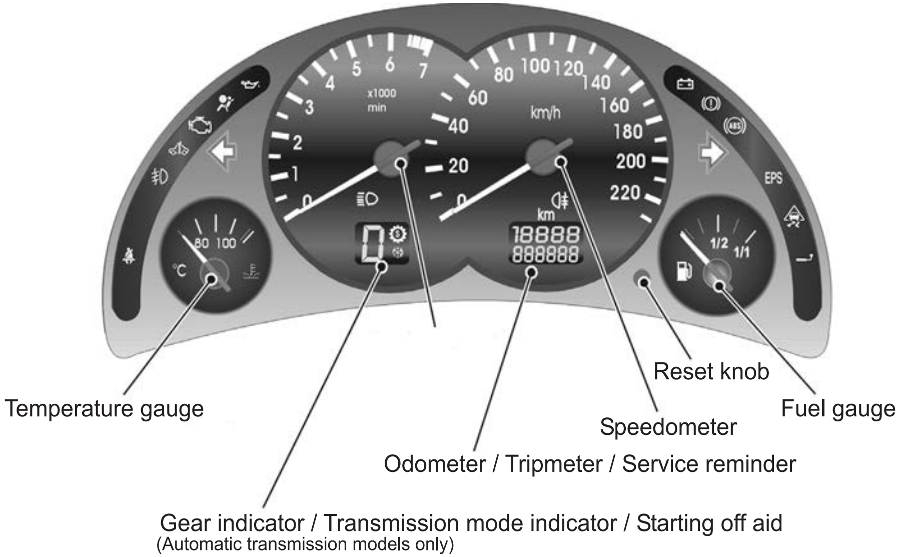
Horn

The horn is activated by pressing the 📯 light, on either side of the steering wheel.



11548 S

GAUGES


x1000
min
km/h
km
18888
888888
Temperature gauge
Reset knob
Fuel gauge
Speedometer
Odometer / Tripmeter / Service reminder
Gear indicator / Transmission mode indicator / Starting off aid
(Automatic transmission models only)

Note: Due to differences between models, your vehicle may not feature all of the warning / reminder lights illustrated.

Speedometer

The speedometer indicates vehicle speed in kilometres per hour.

Tachometer

The tachometer shows engine speed in revolutions per minute (rpm). Operation in the red zone may cause serious engine damage.

Odometer / service reminder / tripmeter

A small window in the speedometer is used for the odometer, the service reminder and the tripmeter. When the ignition is off, you can view the odometer and the tripmeter for a few seconds by pressing the reset knob. The **odometer** records kilometres travelled since the vehicle was built.

20
0
200
220
km
InSP
14625

The **service reminder** displays 'InSP' for a few seconds when the engine is started if the vehicle is within 500 km or one week of the next service. Refer to Chapter 12.

The **tripmeter** (above the odometer) records kilometres travelled on a particular trip. To zero the reading, press the reset knob while the ignition is on.

Gear indicator / Transmission mode indicator / Starting-off aid (if fitted)

These features relate to the operation of the automatic transmission. Refer to Chapter 4.

GAUGES cont.

Engine temperature gauge

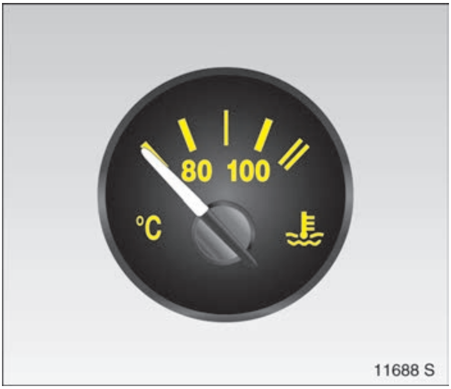
The temperature gauge indicates the engine coolant temperature.

If the pointer is to the left of the 80 mark, the engine is not yet at operating temperature.

If the pointer is between the 80 mark and the 100 mark, the engine is at normal operating temperature.

If the pointer moves to the right of the 100 mark for more than 30 seconds, the engine temperature is too high.

If this occurs, stop the vehicle as soon as it is safe to do so. Refer to Chapter 6, Engine Overheating.



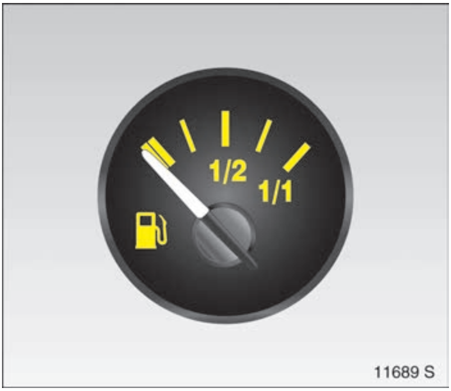
Fuel gauge

Refer to Chapter 8 for the fuel tank capacity.

Add fuel to the tank when the gauge indicates low fuel or when ⛽ illuminates.

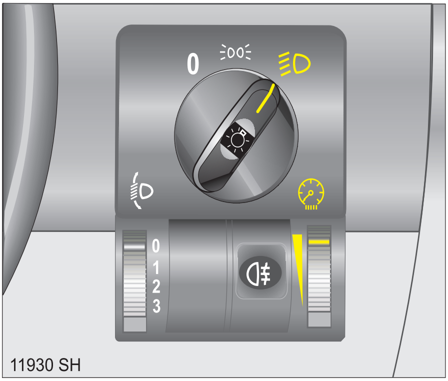
If the pointer moves into the red zone or ⛽ flashes, add fuel to the tank immediately. Refer to Chapter 5.

Note: Never let the tank become empty; this can cause damage to the exhaust system components.



Instrument lighting

When the parking lights or headlights are switched on, adjust the instrument brightness by turning the thumb wheel located on the lower right-hand side of the headlight switch.



WARNING / REMINDER LIGHTS

Sports / economy drive (automatic transmission)

Illuminates for a few seconds when the ignition is switched on and when 'Sports Drive' is selected. Transmission then shifts at higher engine speeds. Refer to Chapter 4.

Check engine and automatic transmission fault

Your vehicle is fitted with an Electronic Engine Management System. This light illuminates when the ignition is switched on and goes off shortly after the engine starts to run.

If it illuminates when driving, a fault has occurred in the transmission or service to the Engine Management System may be required. Stop the vehicle, switch the engine off and restart. If the light continues to flash, manually change gears using the shift lever and consult a Holden Retailer.

Although the vehicle may still be drivable and not require towing, see a Holden Retailer as soon as possible. Continued driving could affect fuel consumption, engine performance or may damage the catalytic converter.

If the light flashes and the engine cannot be started, turn the ignition off for at least 2 seconds before attempting to start the engine again.

Battery

Illuminates when the ignition is switched on. Extinguishes when the engine is started and the engine speed is increased above idle speed.

If it illuminates when driving, the battery is not being charged properly (engine cooling may also be affected). Consult a Holden Retailer as soon as possible.

Brakes, hydraulic clutch

Illuminates for a few seconds when the ignition is switched on. It will extinguish after a few seconds unless the park brake is applied or the brake / clutch fluid levels are low.

If it lights during driving and the park brake is not applied, you should stop the vehicle as soon as possible and consult a Holden Retailer.

Emissions

Your vehicle is fitted with an emission monitoring system. The emission warning light indicates when system service is required. The light illuminates when the ignition is switched on and goes off shortly after the engine starts to run.

If the light illuminates when driving, service to the emission system may be required. Although the vehicle may still be driveable and not require towing, consult a Holden Retailer as soon as possible.

However, if the light flashes while driving, reduce speed until the light stops flashing and consult a Holden Retailer as soon as possible.

Low fuel

Illuminates when the fuel gauge enters the red zone (earlier when driving around corners). If the light flashes, add fuel immediately.

WARNING / REMINDER LIGHTS cont.

Starting-off aid (automatic transmission)

Illuminates when the starting-off aid is switched on. Refer to Chapter 4.

Oil pressure

Illuminates when ignition is switched on and goes off after the engine is started. It can light up intermittently when idling if engine is hot, but must go out when engine speed is increased. If the light illuminates when driving, stop the vehicle immediately and switch off the engine. Check the engine oil level. Refer to Chapter 7. Do not drive with this light illuminated. If the oil level is normal, have the system checked at the nearest Holden Retailer.

Rear fog lights

Illuminates when the rear fog lights are switched on.

High beam

Illuminates when the high beam headlights are in use or are flashed.

Left and right turn signal indicators

The respective arrow (left or right) flashes when the turn signal lights are in use. If the light flashes rapidly, a turn signal bulb may have failed.

Seat belt

This warning light illuminates for a short time when the ignition is first switched on. This warning is designed to remind occupants to fasten their seat belts.

Airbag and seat belt pretensioners

Illuminates for a few seconds when the ignition is switched on. If it does not extinguish or if it illuminates when driving, there is a defect in the airbag / seat belt pretensioner system. They may not function correctly, especially in an accident. Consult a Holden Retailer as soon as possible.

EPS

Electronic power steering (EPS)

The EPS light remains illuminated when the ignition is switched on and goes off after the engine is started. If it illuminates when driving, a fault has occurred in the EPS system. You may continue to drive but greater effort will be required to turn the steering wheel. Consult the nearest Holden Retailer.

Traction control

Illuminates for a few seconds when the ignition is switched on. The warning light flashes when the system is controlling wheel spin. Refer to Chapter 4.

Anti-lock braking system (ABS) (if fitted)

The ABS light illuminates for a few seconds when the ignition is switched on. If it does not go out or if it comes on during driving, there is a defect in the ABS. The brake system is operational but without ABS assistance. You should consult a Holden Retailer as soon as possible.

Note: Due to differences between vehicles, your vehicle may not feature all of these warning / reminder lights.

WIPERS AND WASHERS

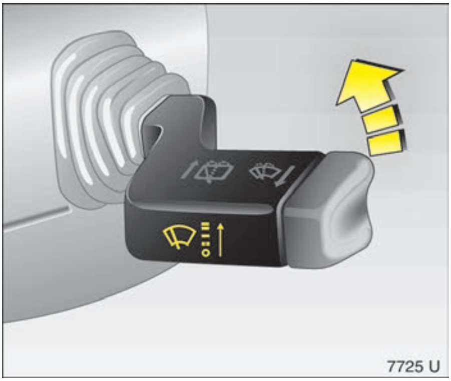
Windscreen wipers

Move the lever upwards.

=	Fast
—	Slow
- -	Intermittent
O	Off

To set the intermittent wipe interval between 2 and 15 seconds:

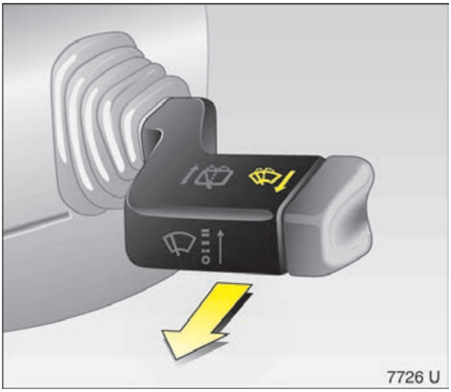
1. Set the lever to intermittent.
2. Set the lever to off.
3. Wait for the number of seconds interval you wish to set.
4. Set the lever back to intermittent.



The selected intermittent interval is stored until it is changed again or until the ignition is switched off. When the ignition is switched on, the interval is preset to 7 seconds.

Windscreen washer

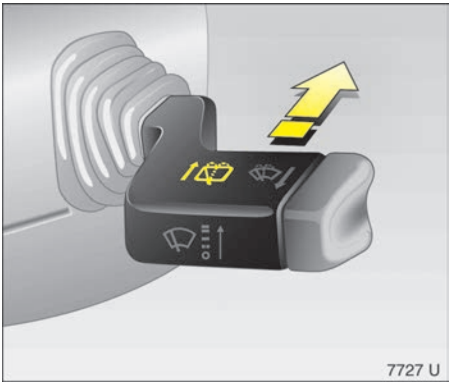
Never operate the wipers on dry glass as this can damage the rubber wiper blades. To spray washer fluid onto the windscreen pull the lever toward you. At the same time the wipers are operated for several sweeps.



Rear wiper and washer (if fitted)

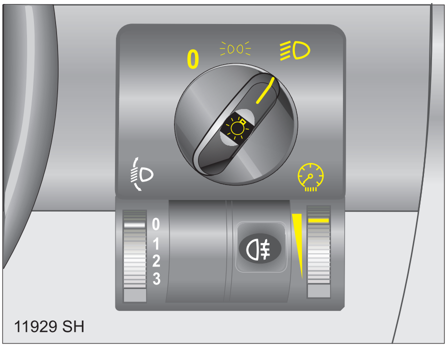
Push the lever away from you to the first position to turn on the rear wiper. To turn on the rear washer, push the lever further and hold as long as required.

When the lever is in the first position, the rear wiper operates at an intermittent speed.



EXTERIOR LIGHTS

Light switch



0 Off.

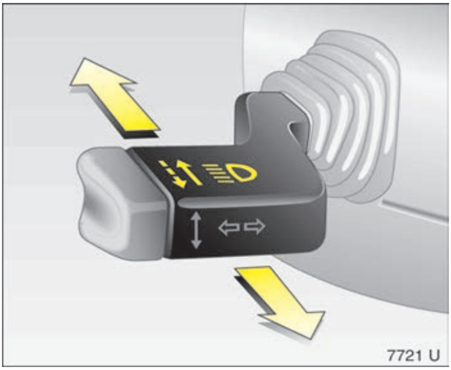
⊃○⊂ Parking lights.

≡D Headlights and parking lights.

☼ Press the switch to turn on the interior light. Press the switch again to turn off the light.

◔ Turn the thumb-wheel to adjust the brightness of the instrument lights.

High / low beam



With headlights switched on, push the lever away from you and release it. The headlights change from low to high beam.

Pull the lever back towards the steering wheel to return to low beam.

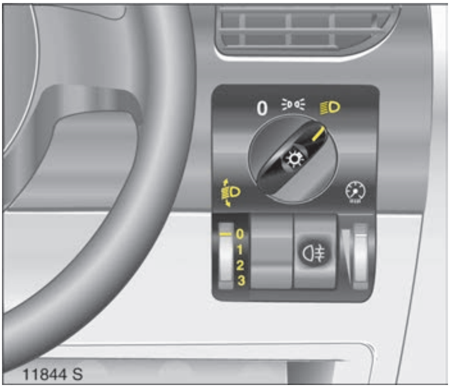
When high beam is in use, a light on the instrument panel illuminates.

It is also possible to flash the high beam for signalling purposes by pulling the lever towards you (even with the headlights turned off). The lights remain in high beam as long as the lever is held in this position.

Leaving the headlights on without the engine running will eventually flatten the battery.

A warning chime will remind you to switch off the headlights when leaving the vehicle.

Headlight range adjustment



The headlight range may be adjusted to suit the current load in the vehicle by selecting 0, 1, 2 or 3 when the headlights are on.

Correct adjustment of the headlight range reduces dazzle for other road users.

0 Front seats occupied.

1 All seats occupied.

2 All seats occupied and load in the luggage compartment.

3 Driver's seat occupied and load in the luggage compartment.

EXTERIOR LIGHTS cont.

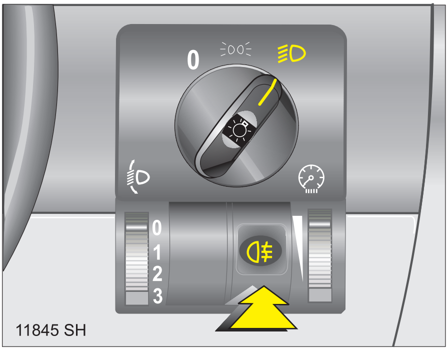
Rear fog light/s

The push button for the rear fog light/s is located below the headlight switch beside the instrument dimming switch.

Push the button while the headlights are on to switch the fog lights on or off. The light in the instrument panel glows when the fog lights are switched on.

Check your state laws regarding the use of fog lights.

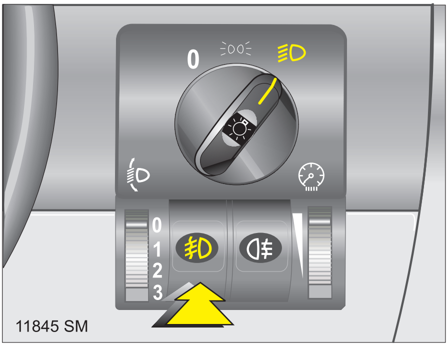
For Combo rear fog light detail, refer to Chapter 6.



Front fog lights (if fitted)

To turn the front fog lights on or off, push the button beside the headlight range adjuster. When the front fog lights are on, the ≢D light appears on the left-hand side of the instrument panel.

Check your state laws regarding the use of fog lights when driving.



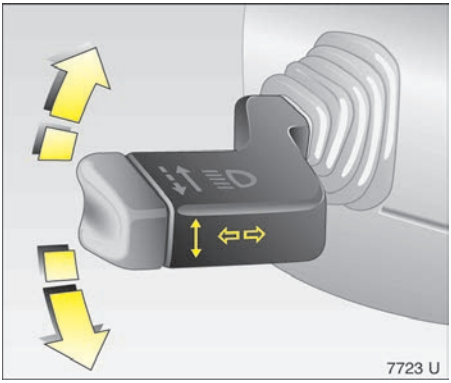
EXTERIOR LIGHTS cont.

Turn signals

Push the lever up or down (as required) to signal a turn.

In some turns (such as changing lanes) the steering wheel is not turned far enough to cancel the turn signal. So, to indicate a lane change, move the lever part way and hold. The lever will return to the neutral position when released.

To signal a turn, push the lever in the same direction that you intend to turn the steering wheel.



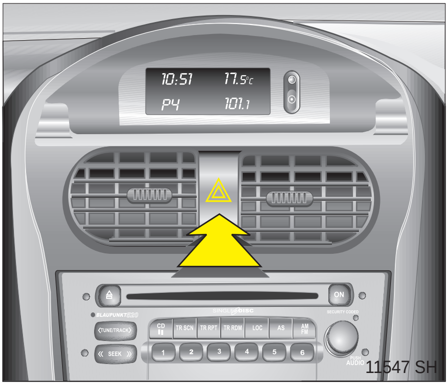
Hazard warning flasher

Push the button to switch on or off.

Use the hazard warning flasher to warn other drivers if your vehicle becomes a traffic hazard, day or night.

When the hazard warning system is on, the ⚠ light flashes in unison with the exterior turn signals.

Use of the hazard warning flashers while the vehicle is moving is illegal in some states.



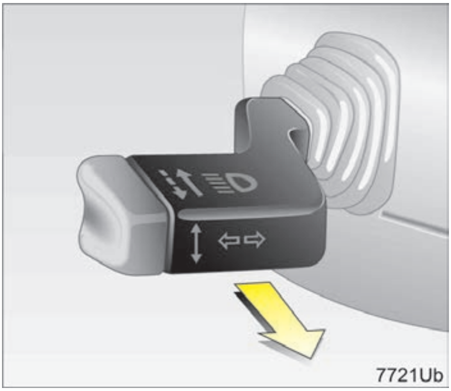
Lights off delay

The low beam headlights and the reversing lights can be set to turn off 30 seconds after leaving the vehicle. This feature is of particular benefit when parking in unlit parking areas, driveways and garages.

After removing the ignition key and opening the driver's door, pull the turn signal lever towards the steering wheel, as illustrated.

Cancel this feature by inserting the key into the ignition.

Note: If the driver's door is left open, the lights will turn off after two minutes.



RADIO / CD PLAYER AND CUP HOLDER

Radio / CD player operation

The radio will stay on until the key is removed from the ignition. Therefore, remember to remove the key when leaving the vehicle for any length of time or you may flatten the battery.

The radio can also be heard when the key is removed from the ignition by pressing the ON button. In this case, the radio will automatically switch off after one hour.

Refer to the audio instructions for operating your radio / CD player.

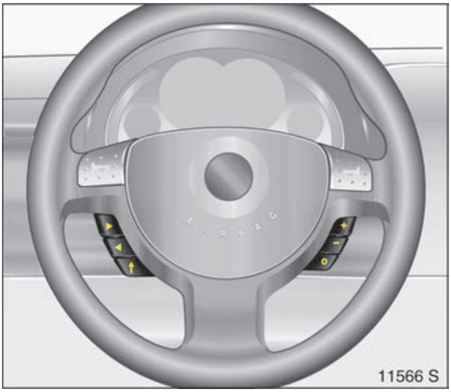
Mobile phones and CB radios

Mobile phones and CB radio equipment which use an integrated antenna may temporarily affect the vehicle electronics when used inside the vehicle due to interference created when transmitting.

Therefore, only mobile phones and CB equipment that use an antenna fitted to the outside of the vehicle should be used.

Steering wheel mounted audio controls (if fitted)

The audio system functions can be operated by buttons mounted on the left and right side of the steering wheel. The audio system is operated as described in the operating instructions supplied.



Cup holder

The cup holder is located in the front centre console.

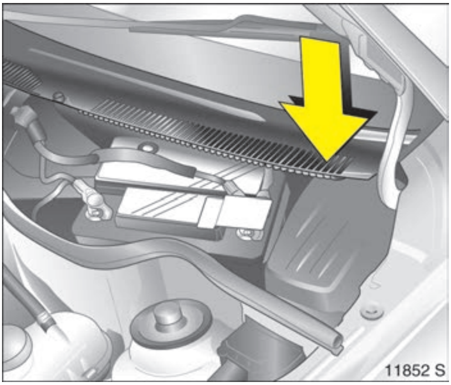
Remember that drinks may be spilled when you drive off!

VENTILATION AND HEATING

Ventilation air inlet

The vehicle features a flow through ventilation system for your comfort. Under reasonable conditions, it should be unnecessary to open the windows.

Outside air is drawn into the vehicle through the opening at the base of the windscreen. Do not allow this opening to become clogged with debris, such as leaves or snow.

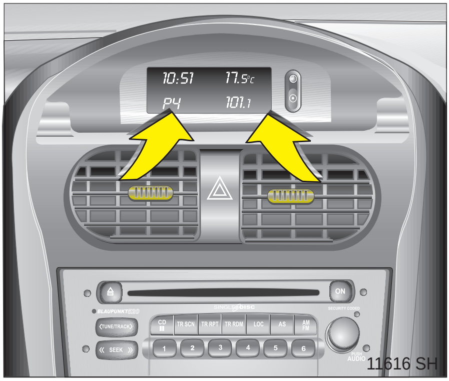


Pollen filter

The pollen filter is located in the air intake vent. The filter removes dust, soot, pollen and spores from the inflowing outside air.

The activated charcoal coating largely eliminates odours and polluting environmental gases from the air.

Note: The filter must be replaced at the intervals specified in the maintenance schedule. Refer to Chapter 12.



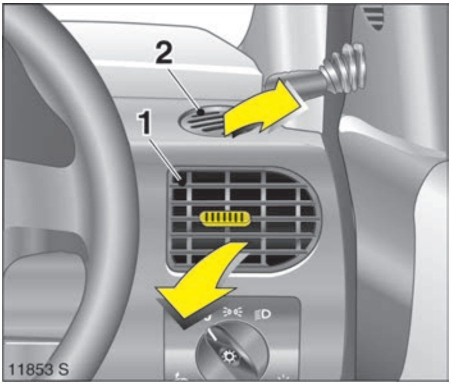
Demist and foot level vents

The demist and foot vent outlets are not adjustable as they direct air to the windscreen, windows or feet in the best way.

Face level centre vents

The face level centre vents are adjustable. They can be swivelled and tilted as required. They can also be completely shut off by sliding the adjuster towards the centre of the dashboard.

When the temperature dial is set to the centre position, air from the centre vents is cooler than the air emitted from the side vents.



Face level side vents

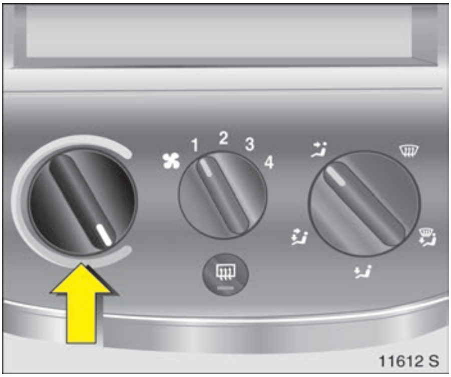
The face level side vents (1) can be swivelled and tilted as required. They can also be completely shut off by sliding the adjuster towards the centre of the dashboard. When the vent dial is set to demist, air will be directed through the demist vents (2) onto the windscreen and door windows.

VENTILATION AND HEATING cont.

Temperature dial

Anticlockwise = cool

Clockwise = warm

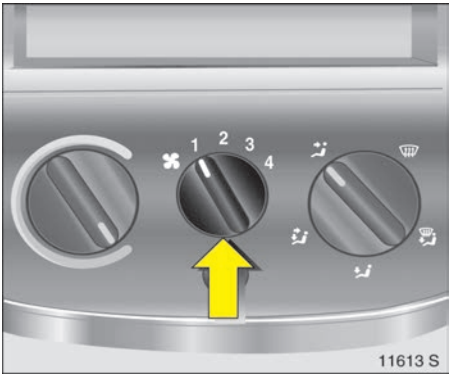


11612 S

Fan dial

OFF plus four fan speeds are provided.

Note: The rate of air flow is determined by vehicle speed as well as by the fan.



11613 S

Vent dial

Air from demist vents.

Air from demist and foot vents.

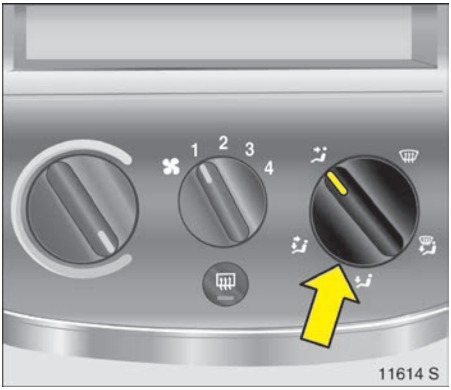
Air from foot vents.

Air from face and foot vents.

Air from face-level vents.

To provide for individual requirements, the switch can be set to any intermediate position.

Note: The air will flow from the face vents with all vent dial positions, provided the vents are open.



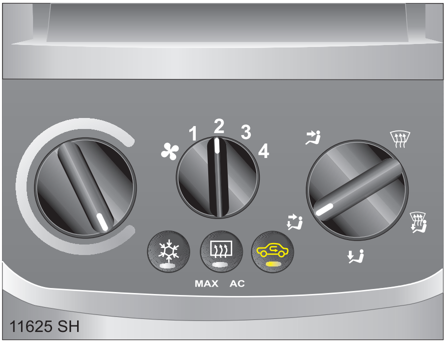
11614 S

VENTILATION AND HEATING cont.

Air intake button

Push the 🚗 button to switch between recirculated and outside air. The 🚗 light illuminates when recirculate is selected.

When following another vehicle on dusty roads or to prevent exhaust fumes or odours from entering your vehicle, select recirculation. However, when driving on unsealed roads but where the dust is not airborne, select fresh air. All windows must be closed and the fan preferably on a high speed so that positive air pressure in the vehicle helps prevent dust from being sucked in.

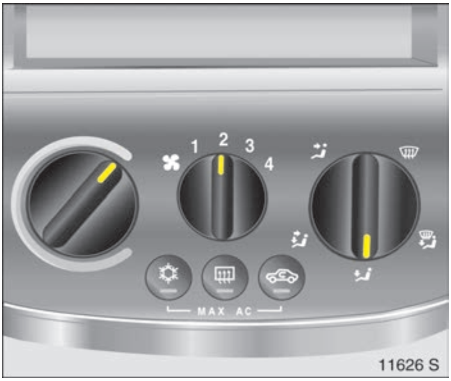


The recirculate selection reuses interior air and is therefore not recommended for long periods of time. If occupants are smoking, it is recommended that recirculate is not selected, as the tobacco smoke adheres to the air ducts and produces stale smelling air.

Heating

- Air conditioning switch off (if fitted).
- Air intake button to fresh air position.
- Temperature dial as required.
- Fan as required, but not full speed.
- Vents dial to foot vents.

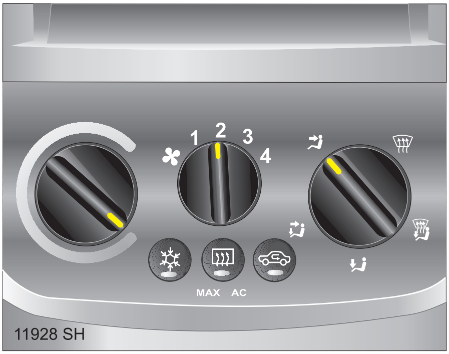
Note: Heat will not be available until the engine warms up. Therefore, keep vents closed until the engine has warmed up, then direct vents towards side windows (if required) to aid demisting.



Ventilation without using air conditioning

Use these settings to conserve fuel when air does not require cooling.

- Air conditioning switch off (if fitted).
- Air intake button to fresh air position.
- Turn temperature dial to cold.
- Fan speed as required.
- Set vents dial to face-level.
- Open all vents.



AIR CONDITIONING (if fitted)

Air conditioning not only cools the air but also removes moisture. If the temperature dial is moved away from extreme cold, the air will then be reheated before entering the cabin.

The air conditioner is switched on by pushing the button with the snowflake light. A light in the switch will glow when the air conditioner is operating. The fan automatically runs at low speed, which can be increased if required.

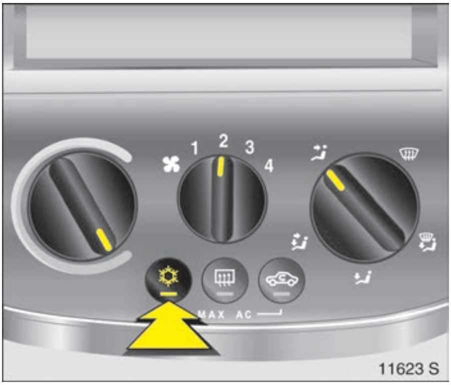
The air conditioning system operates only in the temperature ranges in which it is required; it switches off automatically when the outside temperature is below + 4°C.

To conserve fuel, switch off the air conditioning in cold weather. However, once a month (with the engine running) switch the air conditioner on for 5 to 10 minutes, even in Winter. This will lubricate the air conditioning system.

At least one vent must be open when the air conditioning is on, so that the evaporator does not ice up due to a lack of air movement.

Normal cooling

- Air conditioning switch on.
- Air intake button to fresh air position.
- Turn temperature dial to cold.
- Fan speed as required.
- Set vents dial to face-level.
- Open all vents.

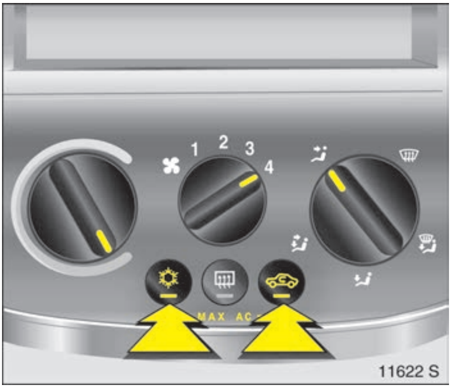


Maximum cooling

For maximum cooling in hot weather or when the vehicle has been left in the sun, open the windows briefly so that warm air can escape quickly.

- Air conditioning switch on.
- Air intake button in recirculate position.
- Turn temperature dial to cold.
- Fan to highest speed.
- Set vents dial to face-level.
- Open all vents.

Do not have recirculation selected for long periods as no outside air is drawn into the vehicle. Cabin air is recirculated and can become stale.



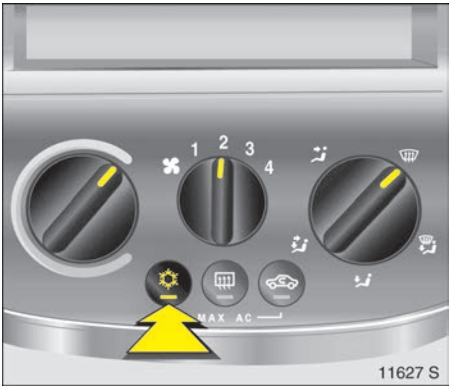
DEMISTING

Windscreen demisting

- Air conditioning switch on (if fitted)
- Air intake button to fresh.

Note: Air intake will automatically switch from recirculation to fresh air when the vents dial is rotated to demist mode.

- Temperature dial to hot.
- Fan to speed 2 or more.
- Vents dial to demist or to demist and foot level vents.
- Close all dashboard vents.

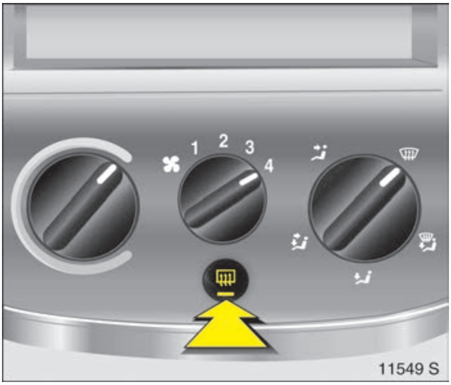


Rear window demisting

Demisting is provided for the rear window. Press the switch to turn demisting on or off.

A light in the switch glows when demisting is operating.

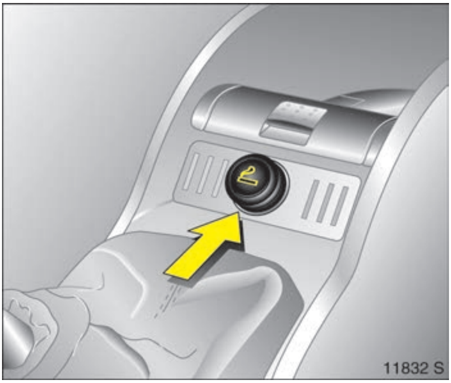
Demisting operates when the ignition is on.



CIGARETTE LIGHTER AND ASHTRAYS

Cigarette lighter (if fitted)

The cigarette lighter works when the ignition is switched on. Push the cigarette lighter inwards to heat. The lighter will automatically pop out when heated and ready to use.

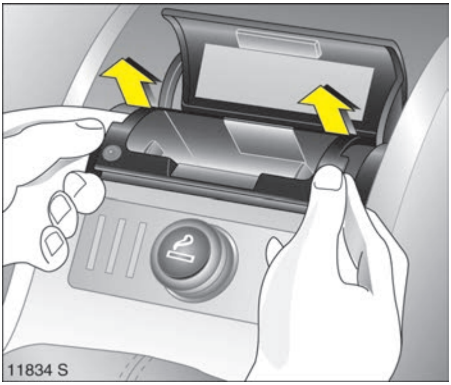


Front ashtray (if fitted)

To open, lift the front of the cover upwards.

To empty, open the ashtray cover beyond its resistance point which will cause the ashtray insert to lift from its installed position.

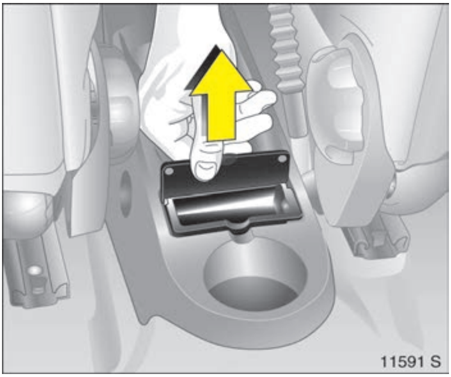
To remove the ashtray completely, pull up evenly on both sides of the ashtray insert.



Rear ashtray (if fitted)

To open, lift the front of the cover upwards.

To empty, open the cover and pull the ashtray upwards by its cover.

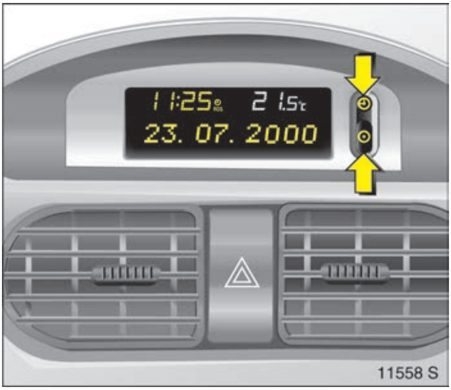


TRIPLE INFORMATION DISPLAY

Display shows the time, date and outside temperature, when the ignition is on. When the radio is playing, the date display is replaced by radio display.

As with the instrument lighting, the brightness of the display can be adjusted when the park lights and / or headlights are on, by turning the thumb knob located below the light switch.

When the ignition is off, the display can be illuminated for approximately 15 seconds by briefly pressing one of the buttons next to the display.



Adjusting the date / time

- Turn on the ignition and switch off the radio.
- Press the top button for approximately 2 seconds (day starts flashing).

  Press the bottom button until day is correct.
- Press the top button (month starts flashing).

  Press the bottom button until month is correct.
- Press the top button (year starts flashing).

  Press the bottom button until year is correct.
- Press the top button (hour starts flashing).

  Press the bottom button until hour is correct.
- Press the top button (minutes start flashing).

  Press the bottom button until minutes are correct.
- Press the top button – clock starts at 0 seconds.

If only the time is to be set, repeatedly press the top button until the hour / minutes are flashing and adjust as required.

Outside temperature

WARNING:

The road surface may be icy, even though the display indicates a few degrees above zero.

To warn the driver that the road surface may be icy, a snowflake light displays when the temperature drops below 3°C.

'--.-°C' or an 'F' on the display indicates a fault in the system. You should see a Holden Retailer.

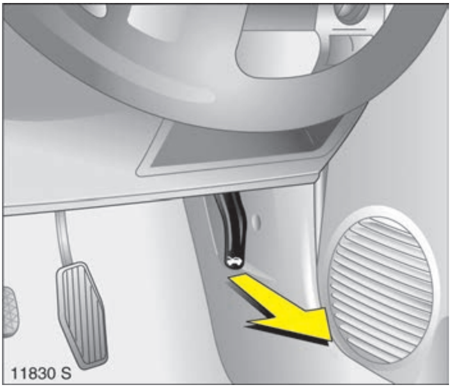
Note: A fall in temperature is indicated immediately, but a rise in temperature is indicated after a short delay.

BONNET RELEASE

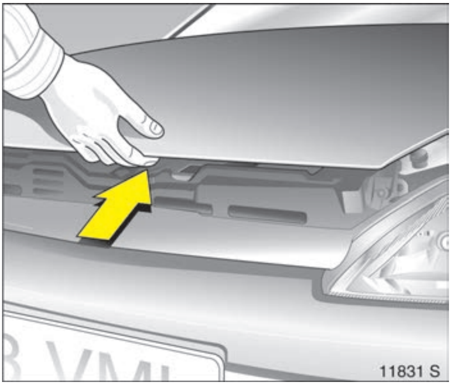
Open the bonnet

The bonnet release lever is located beneath and to the right end of the dashboard.

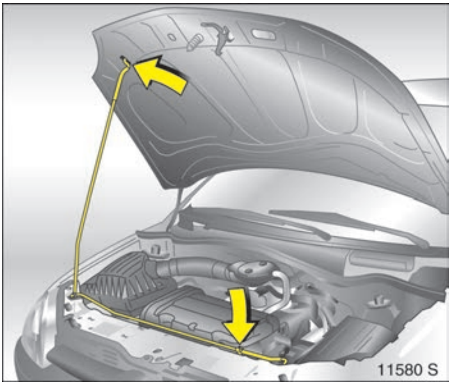
To release the bonnet, pull the lever towards you. This allows the bonnet to release but is prevented from opening by the safety catch.



To open the bonnet completely, locate the safety catch towards the right-hand side of the bonnet and lift it upwards while lifting the bonnet.



Fully open the bonnet and insert the support rod into the slot provided.



Close the bonnet

Before closing the bonnet, release the support rod and fit it firmly into its holder. Lower the bonnet gradually until nearly closed, and then drop it to close fully under its own weight.

Always check that the bonnet is properly closed and that the release lever inside the vehicle has returned to its original position.

IGNITION SWITCH

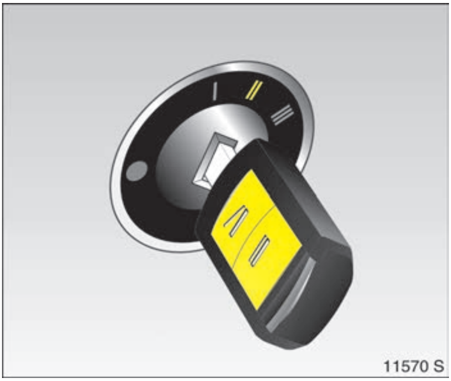
Ignition

● LOCK: Ignition off, steering locked when key is removed.

I OFF: Steering unlocked, ignition off.

II ON: Ignition on.

III START: Start the engine.



Release steering column lock

To release the lock, move the steering wheel slightly and turn the key to position **I**.

Lock steering column

To lock the steering column, withdraw the key in the lock (●) position.

WARNING:

Do not turn the engine off while the vehicle is moving. Power assisted equipment (such as brakes or steering) which are operated by the engine will be ineffective. Vehicles with a manual transmission: Never remove the key while the vehicle is moving as this will lock the steering wheel. Vehicles with an automatic transmission have a lock which prevents the key from being removed while driving. Refer to Chapter 4.

Audible warnings

An audible warning will remind you when you are leaving the vehicle and:

- you have not removed the ignition key (single tone)
- you have left the headlights on (dual tone).

CRUISE CONTROL (if fitted)

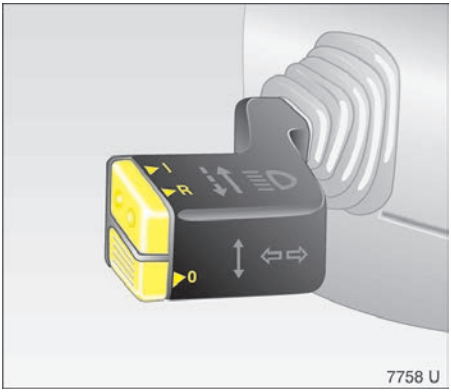
Cruise control maintains the speed of your vehicle without you having your foot on the accelerator pedal and works at speeds over 30 km/h.

The cruise control lever is on the left side of the steering column. The lever has two switches.

The **O** (off) switch is the lower of the two switches and is activated by pushing in the direction of the steering column.

The upper switch is used to adjust speed. It is a two part switch, marked **I** and **R**.

The **I** (increase) part of the switch has a raised dimple = increase in speed.



The **R** (reduce) part of the switch has a recessed dimple = decrease in speed.

Switching on

1. Press the accelerator pedal until the vehicle is travelling at the desired speed, (above 30 km/h).
2. Tap the **I** button.
3. Release the accelerator pedal, as the cruise control is now maintaining speed.

TO INCREASE SPEED WITH CRUISE CONTROL ON:

Hold down button **I** or tap it repeatedly. The speed is increased continuously or in steps of 2 km/h without using the accelerator pedal.

When button **I** is released, the selected speed is stored and maintained.

TO DECREASE SPEED WITH CRUISE CONTROL ON:

Hold down button **R** or tap it repeatedly. The speed is reduced continuously or in steps of 2 km/h.

When button **R** is released the selected speed is stored and maintained.

CRUISE CONTROL (if fitted) cont.

Switching off

Tap button **O**. The cruise control is switched off and the vehicle slowly decelerates. To continue driving, press the accelerator pedal in the usual way.

The cruise control is also switched off when:

- vehicle speed drops below 30 km/h
- the brake pedal is pressed
- the clutch pedal is pressed.

RESUMING THE STORED SPEED:

Tap button **R** at a speed above 30 km/h: the speed selected before the cruise control was switched off is resumed.

The stored speed is erased when the ignition is switched off.

WARNING:

Do not use the cruise control when road or driving conditions could require varying speeds. A constant speed may not be practical in heavy or varying traffic, or on winding, slippery or rough roads.

Remember that when the cruise control is maintaining your speed taking your foot off the accelerator pedal will not reduce speed. To quickly deactivate the cruise control you should press the brake or clutch pedal, or push the 'O' button.

The cruise control will not apply the vehicle’s brakes. Therefore the vehicle may gain speed when going down steep hills.

When climbing steep hills it is possible for the vehicle to lose speed. You may need to switch off the cruise control and instead use the accelerator pedal.

CHAPTER 2

Locks

Page
2-2 Keys
2-3 Manual door locks
2-4 Power door locks
2-6 The remote control
2-8 Tailgate lock (Barina)
2-9 Rear door lock (Combo)
2-10 Emergency procedure for electric door locks
2-11 Electronic immobiliser

KEYS

Keys

Before placing the key on your key ring, remove the key code number from the key (if it is still attached). Please keep it in a safe place, together with the vehicle card containing information about the engine immobiliser, away from your vehicle. Then if your key is lost, replacements can be ordered through a Holden Retailer by quoting the key code number and providing proof of ownership.

Free turning door locks

The door lock cylinder is designed to free turn if it is forcefully rotated without the correct key or if the correct key is not fully inserted. To reset, turn the lock with the correct key until its slot is vertical, remove the key and then re-insert it. If the lock still free turns, turn the key through 180 degrees and repeat the operation.

Note: This feature is provided as a theft deterrent to prevent the lock being forced open. The force required to make the key 'free turn' reduces each time. As the force gets easier with each 'free turn' please do not attempt to demonstrate or test this feature and always remember to fully insert the key when locking and unlocking the doors.

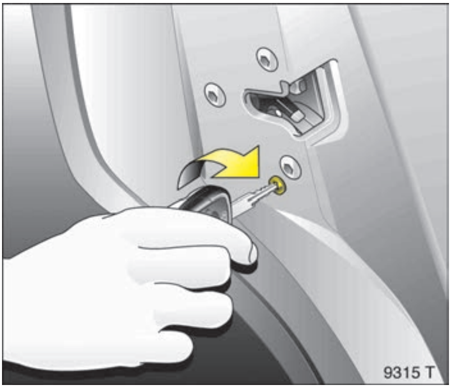
If you have problems regarding this, contact your Holden Retailer. Remember that your vehicle is covered for the first 3 years by Roadside Assist. Refer to Chapter 9.

Child safety rear-door locks (if fitted)

Child safety locking helps prevent rear doors from being accidentally opened by small children inside the vehicle.

The locks are provided on the rear edge of the rear doors, accessible when the door is open.

Using the key, turn the switch away from the vertical position: the door cannot be opened from the inside. It can only be opened by lifting up the inside door lock button and raising the outside door handle.



WARNING:

For safety, check that the safety rear-door locks are operating correctly (after setting) by trying to open the door from inside the vehicle.

MANUAL DOOR LOCKS

Lock or unlock a front door

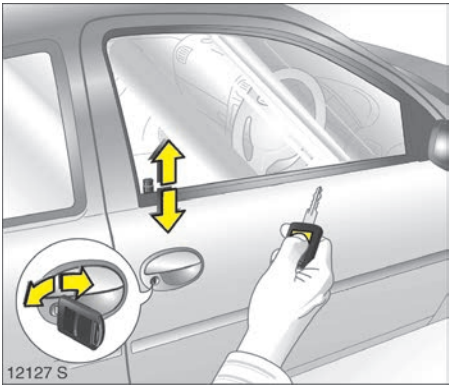
FROM OUTSIDE

To lock a front door from outside, turn the key in the door lock until the door lock-button moves fully down.

To unlock a front door, turn the key in the lock until the button lifts.

FROM INSIDE

To lock / unlock a front door from the inside, press / lift its lock button.



Lock / unlock sliding door (Combo)

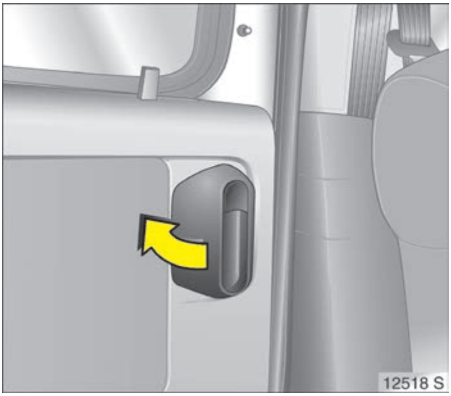
FROM OUTSIDE

To unlock and open the sliding door, turn the key in the lock and pull the door handle towards the rear of the vehicle.

FROM INSIDE

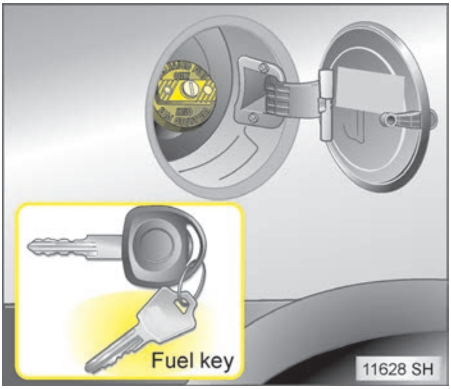
To lock / unlock the sliding door from the inside, press / lift its lock button.

To open the sliding door from inside, pull the door handle towards the rear of the vehicle.



Fuel cap key

The fuel filler flap is opened manually to reveal a lockable fuel cap. A separate key is provided to unlock and remove this fuel cap lock. For vehicles fitted with central locking, refer to Chapter 5.



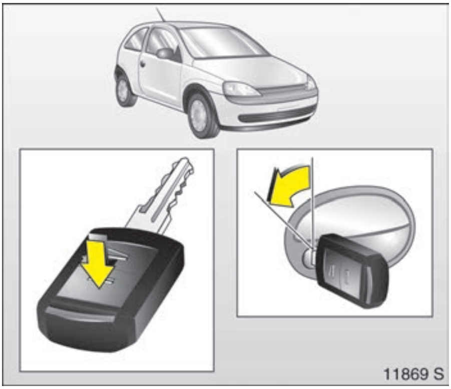
POWER DOOR LOCKS (if fitted)

Remote power door locks

LOCKING THE VEHICLE

Press the rear button of the remote control or turn the key in the driver's door. This locks the doors, tailgate and fuel tank filler flap. Refer to Chapter 5.

The hazard warning lights flash briefly to show that the remote control is operational.

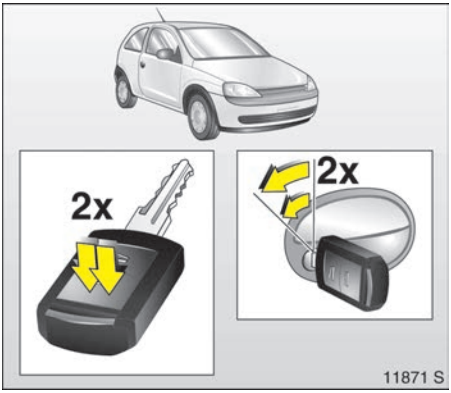


DEADLOCKING

To deadlock all of the doors:

- press the rear button again on the remote control within 10 seconds after locking
- turn the key again in the driver's door lock towards the rear of the vehicle within 10 seconds after locking, then turn the key back to the vertical position and remove it.

Deadlocking locks all of the doors so that no door can be opened even if entry is gained by breaking the glass. The doors can only be unlocked from outside of the vehicle with the ignition key.



WARNING:

Do not use deadlock if there are people in the vehicle. The doors cannot be unlocked from inside.

TO LOCK THE DOORS FROM THE INSIDE

Press the lock buttons. A door is locked when its inside lock button is down and is unlocked when its lock button is up.

To prevent the driver being inadvertently locked out, the lock button on the driver's door cannot be pressed when the door is open.

For safety reasons, the vehicle cannot be locked if the ignition key is in the ignition lock.

If the driver's door is not closed properly, the central locking system will unlock again immediately after locking.

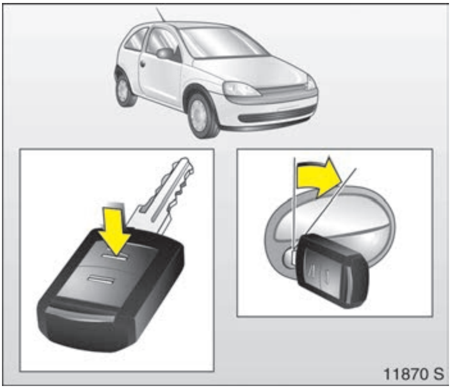
POWER DOOR LOCKS (if fitted) cont.

UNLOCKING – DRIVER'S DOOR ONLY (IF FITTED)

Direct the remote control towards the vehicle and press the front button on the remote control unit.

Alternatively, turn the key in the driver's door once towards the front of the vehicle, then turn the key back to the vertical position and remove it.

Unlocking the doors disengages deadlocking.



UNLOCKING ALL DOORS, TAILGATE AND FUEL FILLER FLAP

Direct the remote control towards the vehicle then press the front button on the remote control unit twice.

Alternatively, turn the key in the driver's door twice towards the front of the vehicle, then turn the key back to the vertical position and remove it. Unlocking the doors disengages deadlocking.

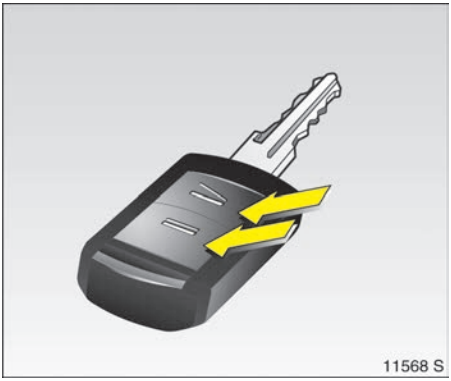
This unlocks the doors, tailgate and fuel tank filler and switches on the interior light.

Automatic relocking

After unlocking the vehicle using the remote control, the vehicle will be automatically locked again after 30 seconds if a door or the tailgate has not been opened.

THE REMOTE CONTROL (if fitted)

The remote control



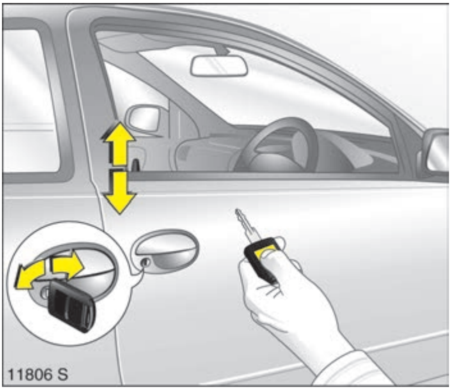
The remote control is powered by a battery inside the key head. A weakening battery is indicated by a progressive 'loss of range' (you must be closer to the vehicle when pressing the key).

Tinting the vehicle's windows with a metallic film, reduces the range of the key.

Treat the remote control with care; it should be protected against moisture and should not be operated unnecessarily.

When the system is operating, the hazard warning lights on the vehicle flash briefly.

Remote control troubleshooting



If the central locking system cannot be operated with the remote control, this may be due to one of the following reasons:

- The range of the remote control has been exceeded. Move closer to the vehicle.
- The battery voltage of the remote control unit is too low. Change the battery as detailed on the following page.
- The remote control has been operated too many times in succession outside the vehicle's normal remote operating range. Resynchronise the remote control as detailed on the following page.
- Overload of the central locking system has occurred as a result of repeated operation at short intervals. The power supply will be cut off for approximately 30 seconds.

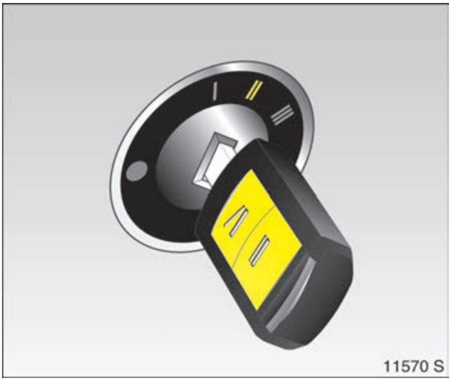
Note: Interference from higher powered radio waves from other sources may affect the operation of the central locking system. Open the vehicle by turning the key in the lock.

THE REMOTE CONTROL (if fitted) cont.

Synchronizing the remote control

In the event of malfunctions, synchronise the remote control:

1. Switch on ignition; the system remains in synchronising mode for 30 seconds.
2. Briefly press any button on the remote control unit while the key is in the ignition.
3. The central locking system locks and unlocks to show that the remote control has been programmed.



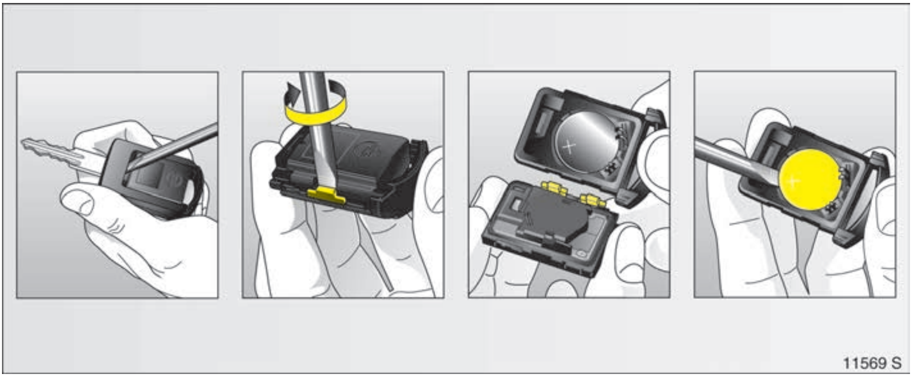
Replacing the battery

Disengage the remote control section from the key using a screwdriver and open the remote control battery cover. Install the battery, ensuring that it is inserted correctly. Install the remote control cover so that it 'clicks' into the key.

Note: The battery change must be performed within 3 minutes, otherwise the remote control will have to be resynchronised.

WARNING:

Keep lithium batteries away from children and pets. Swallowing a lithium battery can cause serious internal injury. If swallowed, contact a doctor immediately.

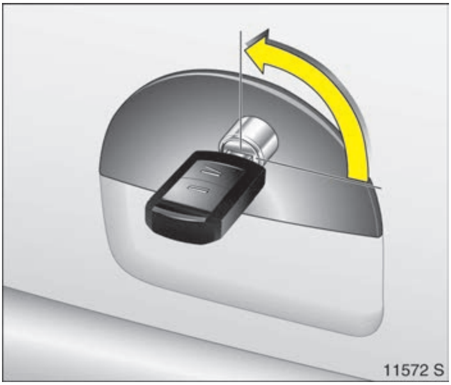


TAILGATE LOCK (BARINA)

The central locking system cannot be switched on or off from the tailgate lock.

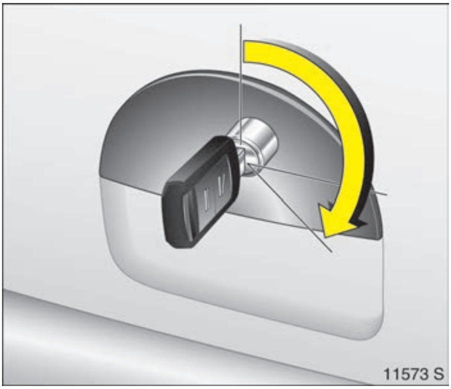
Provided that the key slot is horizontal, the tailgate will lock / unlock when the doors are locked / unlocked.

To keep the tailgate permanently locked (regardless of door lock position, turn the key slot to the vertical position.



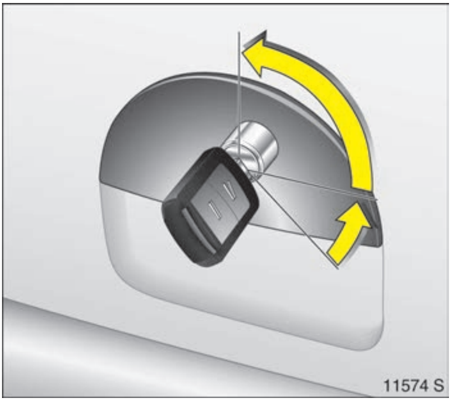
To unlock the tailgate when the doors are locked, turn the key fully clockwise, as far as it will go. Press the button inwards.

Note: To guard against being locked out, the key cannot be removed in this position.



To return the operation to locking / unlocking in synchronisation with the doors, after closing the tailgate, turn the key back to the horizontal position.

Turning the key to the vertical position disconnects the tailgate lock from the central locking system.

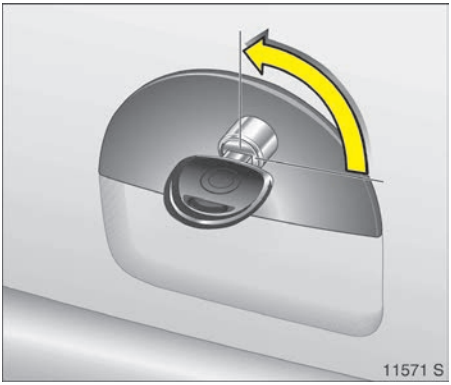


REAR DOOR LOCK (COMBO)

Lock or unlock the doors

To lock the rear doors, turn the key to the vertical position.

To unlock the rear doors, turn the key to the horizontal position.



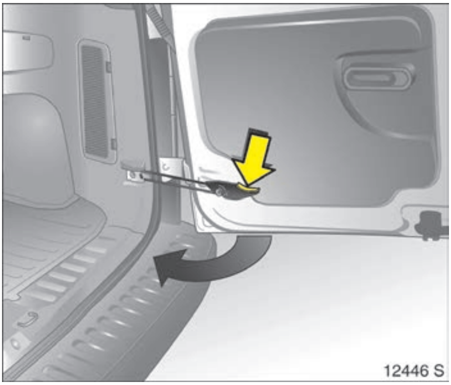
Open the rear doors

To open the rear doors from the outside, lift the door handle and open the right-hand door. Then release the left-hand door by pressing the handles.

When opened 90°, the doors are held open by the door catches.

Open the doors 180° by disengaging the door catch and swinging the door outwards.

To open the rear doors from the inside, lift the door handle on the inside of the rear door.



Close the rear doors

If opened more than 90°, close each door to the 90° position and engage the door catches.

EMERGENCY PROCEDURE FOR ELECTRIC DOOR LOCKS (if fitted)

Unlocking and locking the driver's door in the event of malfunction of the central locking system.

(For example, If the vehicle battery is flat.)

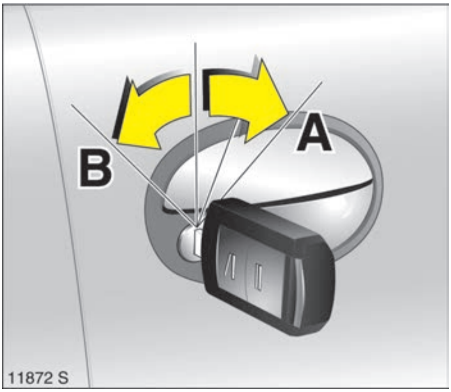
(A) To unlock

Turn the key in the driver's door-lock towards the front of the vehicle, turning it beyond its resistance point until it will not move any further. Turn the key back to the vertical position and remove it; raise the door handle. The lock button remains in the pressed position.

(B) To lock

With the driver's door closed, turn the key towards the rear of vehicle until it will not move any further. Turn the key back to the vertical position and remove it.

The other doors can be unlocked and locked by operating the interior lock buttons.



Emergency – accident

Locked doors are unlocked automatically in the event of an accident (to allow assistance from outside), provided that the ignition is not switched off.

ELECTRONIC IMMOBILISER (if fitted)

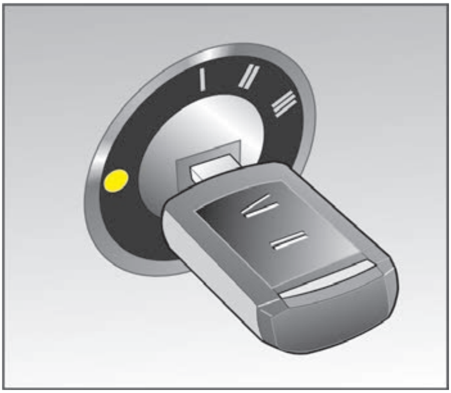
Electronic immobiliser

The key helps to protect the vehicle from theft by means of the electronic immobiliser.

The immobiliser system electronically disables the starting system.

When the key is used to start the vehicle, the system checks the key. If the key is accepted as an 'authorised' key, the starting system is enabled and the vehicle can be started.

Note: The immobiliser does not lock the doors.



Activate

The immobiliser is activated when the ignition is switched off and the key is removed.

Deactivate

The immobiliser is deactivated when the ignition is switched on with an authorised key.

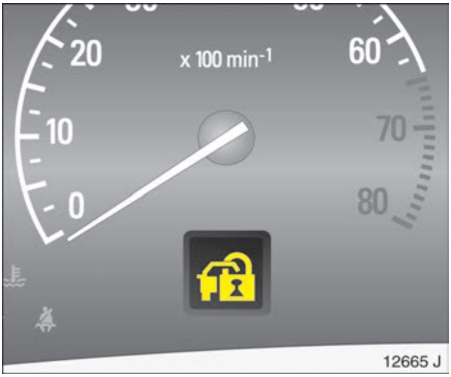
Note: Deactivating the immobiliser is not possible in any other way, so keep a spare key in a safe place.

Indicator

If the key is not authorised, the 🔒 light in the instrument panel illuminates and the engine cannot be started.

1. Turn the ignition to ● (off) and remove the key.
2. Wait approximately 2 seconds
3. Insert the key into the ignition switch.
4. Repeat the starting procedure.

   If the 🔒 light continues to illuminate, try to start the engine using the spare key. Have your Holden Retailer check the system.



CHAPTER 3

Know your vehicle

Page

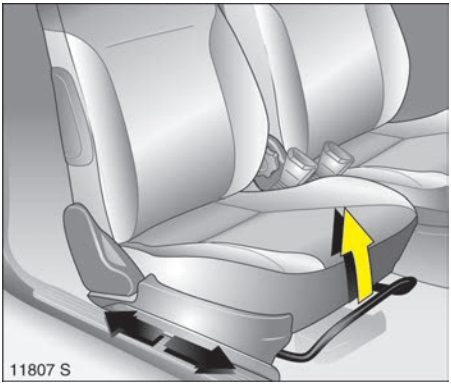
3-2 Front seat adjustment
3-3 Head restraint adjustment
3-5 Seat folding
3-6 Luggage compartment enlargement
3-7 Transporting objects
3-9 Seat belts
3-10 Seat belt height adjustment
3-12 Child restraints
3-15 Park brake
3-15 Interior lights
3-15 Reading lights
3-16 Luggage compartment lights
3-17 Convenience features
3-19 Windows
3-21 Mirrors

FRONT SEAT ADJUSTMENT

Forward / rearward

The driver's side seat and front passenger seat on some models can be adjusted forward and rearward.

If fitted, lift the handle at the front of the seat and slide the seat as required. Release the handle and try to move the seat, to ensure that the catch has locked in position.

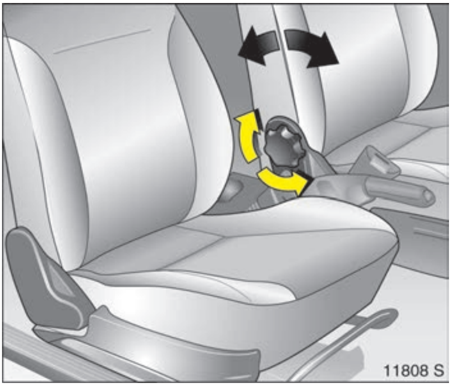


WARNING:

Never adjust the driver's seat whilst driving. The seat could move suddenly and cause the driver to lose control.

Recline / incline

To adjust the angle of the back of the seat, turn the large, toothed wheel as illustrated.



WARNING:

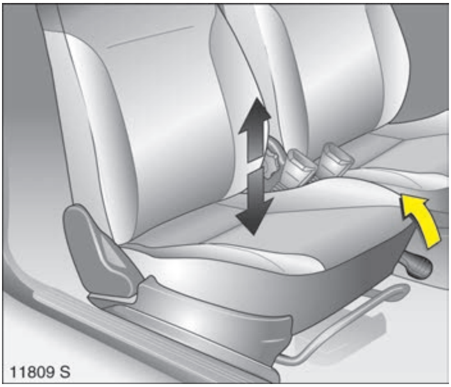
To avoid reducing the effectiveness of seat belts it is recommended that the reclining seats be used in no more than a semi-reclined position when the vehicle is moving. The fully reclined position should be used only when the vehicle is stationary.

Driver's height adjustment (if fitted)

Lift the lever at the front, left-hand side of the seat and remove body weight from the seat to raise the seat.

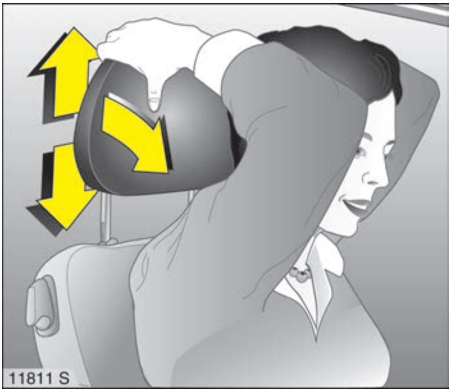
Lift the lever and press down on the seat with body weight to lower the seat.

Never adjust the driver's seat whilst driving. The seat could move suddenly and cause the driver to lose control.



HEAD RESTRAINT ADJUSTMENT

Head restraint note: This safety feature is not intended as a headrest. It is solely for the reduction of whiplash neck movement in an accident involving your vehicle.

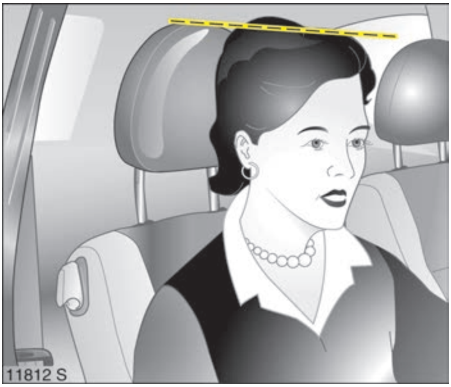


Head restraint adjustment

To adjust the head restraint height, hold the restraint firmly at the top, tilt it forwards, lift up or push down and then release.

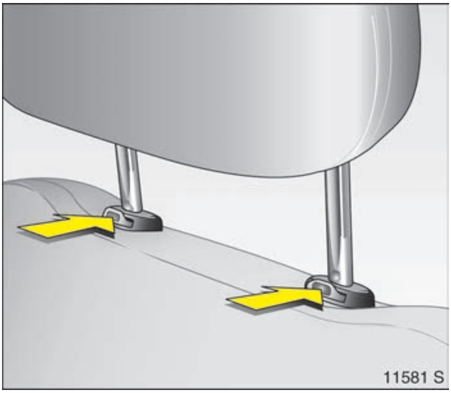
WARNING:

For safety, make all adjustments to the driver's seating and controls prior to operating the vehicle; do not make these adjustments while the vehicle is moving.



Head restraint height

The upper edge of the head restraint should be approximately level with the top of the head – never at neck level. If this is not possible for very tall passengers, the restraint should be set at its highest position.



Head restraint removal

To remove head restraints, squeeze both locking springs while pulling the head restraint upward.

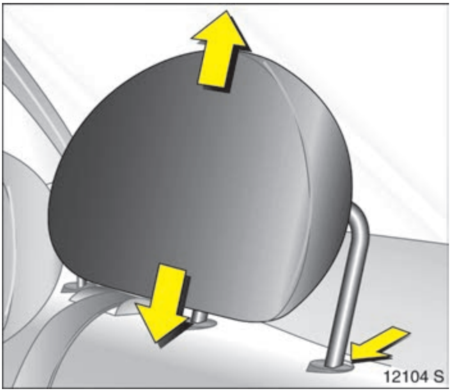
HEAD RESTRAINT ADJUSTMENT cont.

Rear-seat head restraints (if fitted)

To improve visibility to the rear if no one is sitting in the rear seats, push down the rear head restraints. To do so, press the locking spring located at the base of each left-hand side restraint stem.

Remove the rear head restraints prior to enlarging the luggage compartment. To do this, press the locking springs and pull the head restraints upwards.

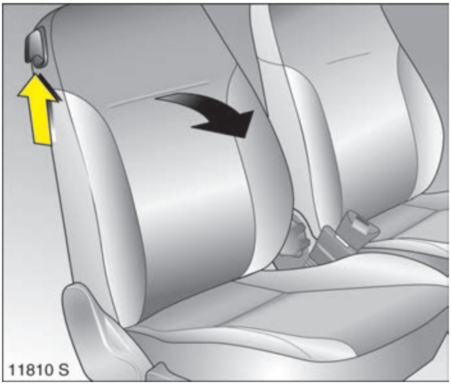
If the rear seat position is occupied, adjust the head restraint to the correct height as previously outlined.



SEAT FOLDING

Front seat folding (2 door Barina models)

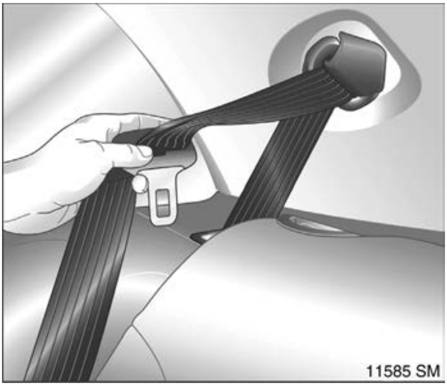
To allow easy entry and exiting of the rear seating positions, fold the front seat forward by pulling the lever upward.



Rear seat backrest folding (if fitted)

To avoid injury from passing traffic, do not stand on the road side of the vehicle when converting the rear seat.

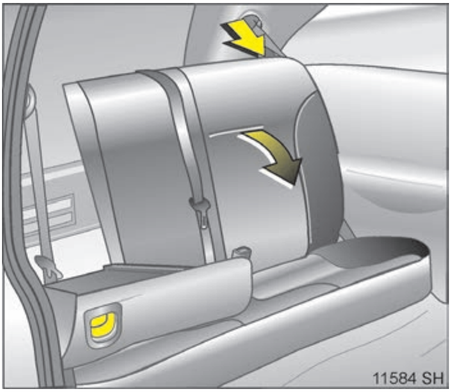
One or both rear backrests may be folded forward (60/40 split) to accommodate long objects. Prior to folding the seat, place the tongue of the seat belt into the holder on the side trim (if fitted).



Disengage one or both rear backrests by pressing the push buttons located at the top, door-side of the seat and folding the backrest forward.

When repositioning rear seat backrests, pull the seat belt forward to ensure it is not trapped.

Also ensure that the seat backrest is firmly locked into the upright position by grasping and attempting to move it.

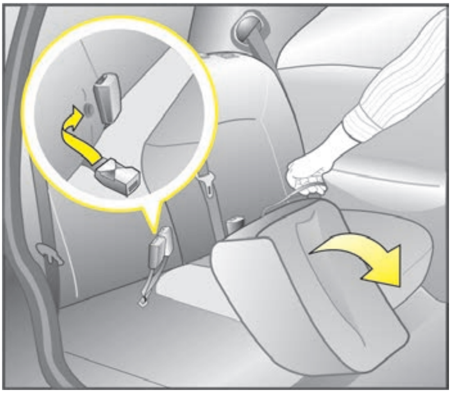


LUGGAGE COMPARTMENT ENLARGEMENT

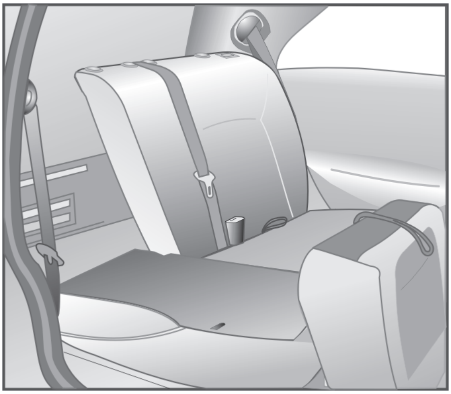
BARINA

Place the tongues of the seat belts into the holders (if fitted) on the side trim.

Remove the rear seat cushions using the straps provided.



Swing the cushions forward. Disengage one or both of the rear seat backrests using the push buttons and fold down.

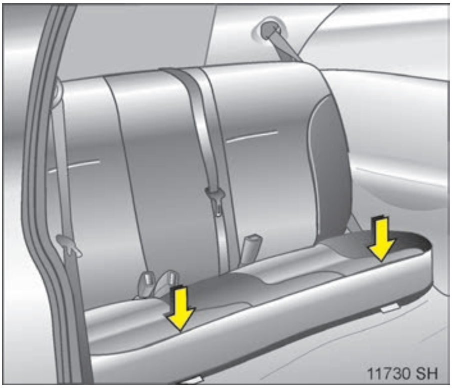


Repositioning the rear seats

Reposition the backrests as described on the previous page.

Fold the rear seat down and push it into place between the backrests and the floor. Press firmly on the front edge of the rear seat in the areas indicated by the arrows to lock the seat into place.

Ensure that the rear seat is firmly attached to the floor by grasping it and attempting to move it.



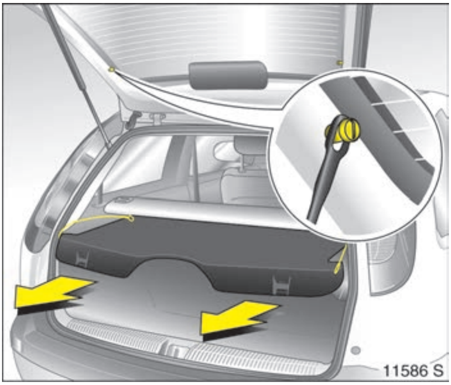
TRANSPORTING OBJECTS

Long objects and tall objects

To transport long objects in models fitted with rear seats, fold the rear seat backrest forward as previously described in this chapter.

To transport tall objects, unhook the luggage compartment cover at the tailgate. Remove the cover from the side guides and place it behind the seat backrests.

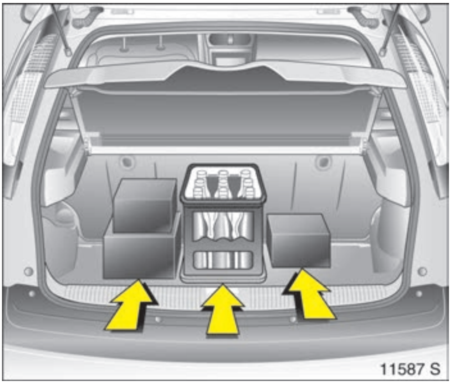
Note: Avoid transporting bulky objects that cause the tailgate to be open or ajar. This can allow exhaust fumes to enter the vehicle.



Heavy objects

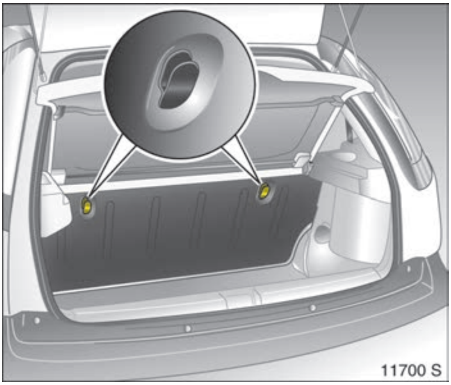
For loading advice, refer to Chapter 10. Heavy objects in the luggage compartment should be placed as far forward as possible against the rear seat backrests (if fitted) or the restraining lattice (if fitted). In models with rear seats, if the rear seat backrests are folded down, position the objects against the front seat backrests. Ensure that backrests are locked in position.

No loads should exceed the maximum allowable vehicle weight. For weight limitations, refer to Chapter 10.



Hanger hooks (if fitted)

On the back of the rear seat backrests two hanger hooks are provided on which carry bags may be hung. The maximum load per hook is 10 kg.



TRANSPORTING OBJECTS cont.

COMBO

Restraining lattice

The cargo should be secured so that it cannot slip and must not obstruct the driver's view in the mirror.

The restraining lattice helps to protect the occupants if the cargo does move, for instance, in an accident or sudden braking. It should, therefore, be in position at all times when carrying goods in the rear compartment.

It is recommended that:

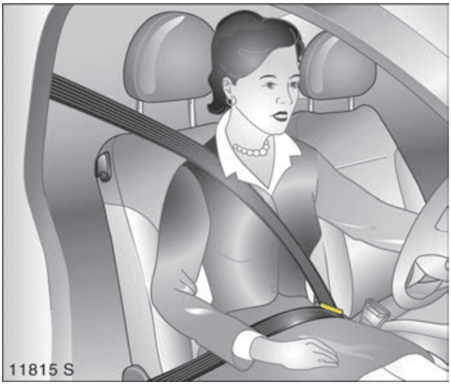
- loads are placed up against the restraining lattice
- long, thin items of cargo are positioned widthwise across the vehicle to minimise penetration risk
- objects are not attached to the front of the restraining lattice.

SEAT BELTS

Lap-sash belts

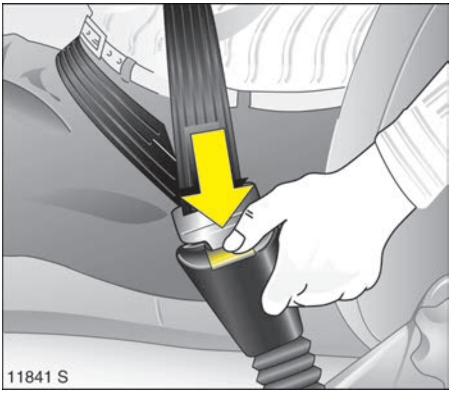
To put on a lap-sash seat belt, pull the metal tongue across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a click. After fastening, settle the belt at the hip, then tension the belt by tugging the sash upward. Any extra belt length will retract automatically.

The lap section should be worn as low as possible on your hips, not on your waist. Make sure the sash and lap sections of the seat belt are free from twists and fits firmly.



The emergency-locking retractor allows you to move freely while the vehicle is travelling normally. The belt will lock immediately on fast braking, impact with a solid object or any quick movement by the wearer.

To undo the belt, press the release button on the buckle and allow the belt to retract. Check that it fully retracts without twisting or turning.

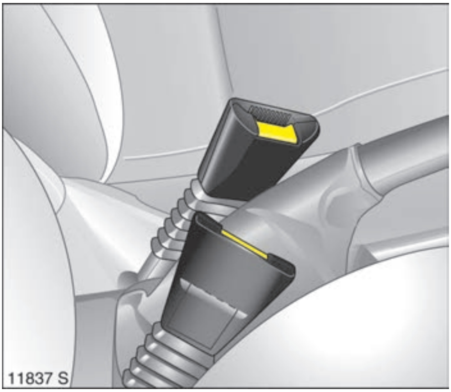


Seat belt pretensioners

The front seat belt system incorporates (once-only) seat belt pretensioners. In the event of a moderate to severe front-on or rear-end collision, the belt buckles are pulled downwards, instantaneously tightening the diagonal and lap belts.

If the seat belt pretensioners have been actuated, the control light illuminates. Actuation may also be indicated by yellow tabs appearing on the belt buckles.

Note: If the belt pretensioners have been activated, they must be replaced by a Holden Retailer. The seat belts remain operational even when the belt pretensioners have been actuated.



SEAT BELT HEIGHT ADJUSTMENT

WARNING:

- **Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.**
- **Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.**
- **Care should be taken to avoid contamination of the webbing with polishes, oil and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.**
- **It is essential to replace the entire assembly after it has been worn in a severe impact, even if damage to the assembly is not obvious. Belts should not be worn with straps twisted.**
- **Each seat belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.**
- **No modification or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.**
- **The positioning of the tongue restrictor must never interfere with, or stop, the belt from fully retracting.**

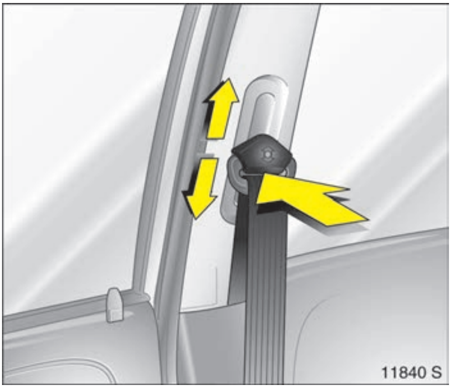
Seat belt height adjustment

Note: Do not adjust the seat belt height while driving.

TWO DOOR BARINA AND COMBO MODELS

For adjustment of the seat belt upper anchorage points:

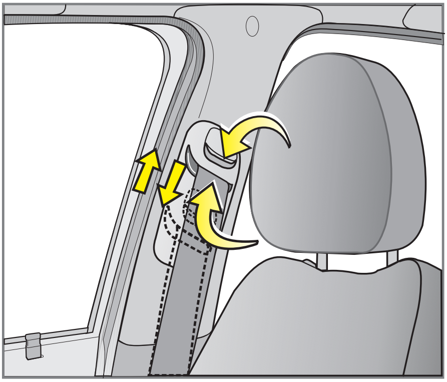
1. Tilt the belt guide inward at the top.
2. Slide the belt guide to the desired height and release it.
3. Allow the guide anchorage to lock audibly into position.



Adjust the height so that the belt passes over the wearer's shoulder and rests against the shoulder. It must not pass over the neck or upper arm.

Short people should select a low belt guide position; tall people should select a higher one.

SEAT BELT HEIGHT ADJUSTMENT cont.



FOUR DOOR BARINA MODELS

For adjustment of the front seat belt upper anchorage points:

1. Squeeze the recessed locking latch downwards.
2. Slide the belt guide and anchorage point to the desired height and release it.
3. Allow the latch to audibly lock into position.

Adjust the height so that the belt passes over the wearer's shoulder and rests against the shoulder. It must not pass over the neck or upper arm.

Short people should select a low belt guide position; tall people should select a higher one.

Australian law requires that the driver and all passengers be properly restrained at all times with the seat belts provided in the vehicle. Failure to do so could increase the chance of injury and / or the severity of injury in accidents.

Ensure that belts are not damaged or trapped by sharp-edged objects.

CHILD RESTRAINTS

Combo

Combo models are not fitted with child restraint anchorages. Children small enough to require a child seat should not be carried in this vehicle.

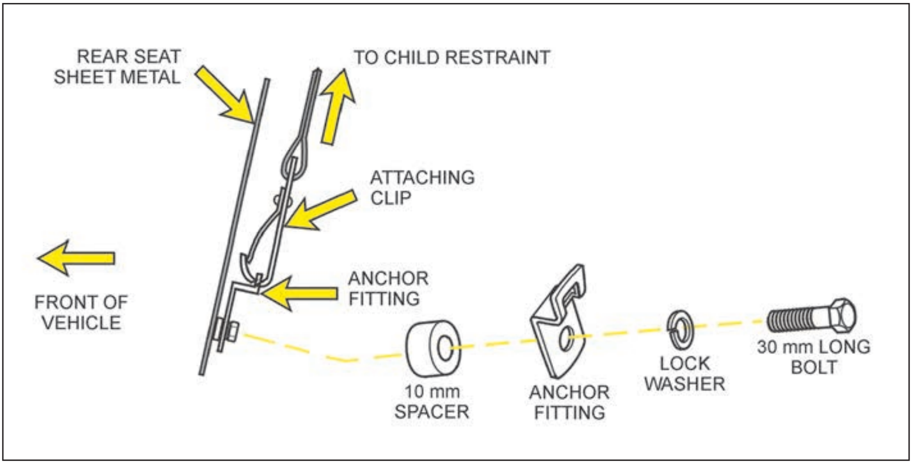
Barina

Always ensure that the seat belt fits firmly around the child restraint.

If a child cannot see out of the window, do not raise the child by means of an ordinary cushion. It will not stay in place in a collision and the child can slip out of the straps and become entangled.

WARNING:

- **Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses or for attaching other items or equipment to the vehicle.**
- **Only child restraints that have clips to attach to the vehicle's anchorage fitting are to be used.**
- **Earlier types of child restraints may not attach securely to this type of anchor and should not be used.**
- **Only Standards Australia approved child restraint harnesses should be used. You should only purchase a child restraint which carries the appropriate Standards of Australia sticker of approval.**
- **Do not install a rear-facing child restraint in the front seat of vehicle with a passenger airbag. The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.**



WHICH TYPE OF CHILD RESTRAINT FOR YOUR CHILD?

Children should be restrained at all times and fitted with a child restraint appropriate to their size when travelling in a vehicle. Following are some guidelines about selecting the appropriate restraint for your child.

Infants

Rearward facing infant capsule		
Weight	**Height**	**Approx. Age**
Less than 9 kg	Less than 70 cm	Up to 6 mths

Designed so that in the event of a collision, impact forces will be evenly spread over the baby's back, with minimal jarring to the vulnerable head and neck area.

Young children

Forward facing child seat		
Weight	**Height**	**Approx. Age**
8 to 18 kg	70 to 100 cm	6 mths to 4 yrs

For use when the child is able to sit and easily hold his or her head upright. It is also possible to purchase convertible seats which can be used as a rearward facing child restraint or converted to a forward facing child seat.

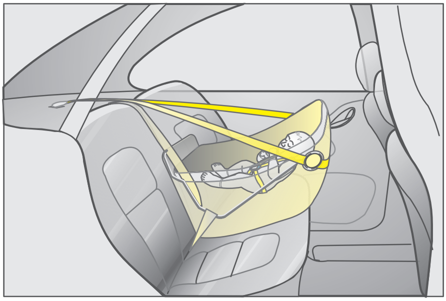
Booster seat with lap / sash seat belt		
Weight	**Height**	**Approx. Age**
–	More than 100 cm	4 to 10 yrs

When children outgrow a typical forward-facing child seat but they are still too small for lap / sash seat belts. A booster seat raises the child so that the knees bend comfortably, the lap / sash seat belt is correctly positioned and the child can see out the window. A rigid booster seat with a back, side wings and sash guide gives the best protection. In assessing the range of children who would benefit from booster seats, height is a better indicator than age or weight.

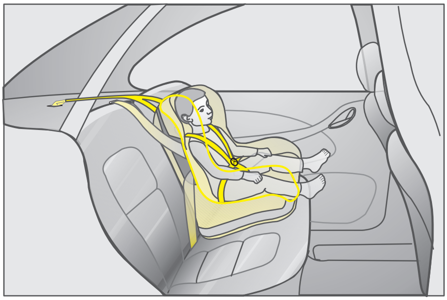
Older children

A child should use a normal lap / sash seat belt only when:

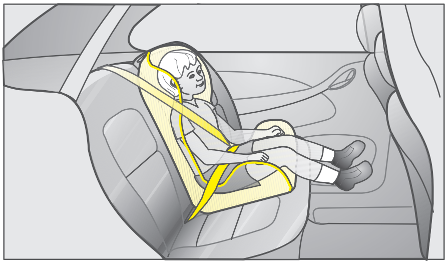
- he / she can sit against the back of the rear seat with knees bent comfortably at the edge of the seat
- lap belt rests low and snug across the hips – not across the stomach
- sash belt is centred on shoulder and chest,
- he / she is able to stay seated like this for the entire trip.



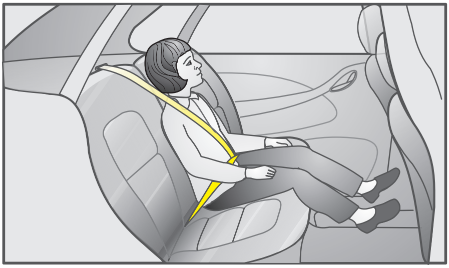
Rearward facing child capsule



Forward facing child seat



Booster seat with lap / sash seat belt



Adult lap / sash seat belt

CHILD RESTRAINTS cont.

Three anchorage locations are provided in the area behind the rear seats, as illustrated.

One anchorage fitting has been installed in the centre position.

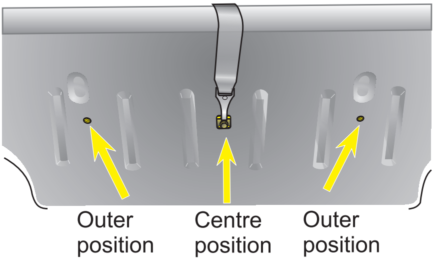
If you wish to use a child restraint in either of the outer positions, remove the cover plug then install an additional anchorage fitting.

Use the bolt, spacers and washer supplied with a child seat.

Ensure that the bolts (outer positions) are securely tightened to (15 – 25 Nm).

If unsure, consult your Holden Retailer.

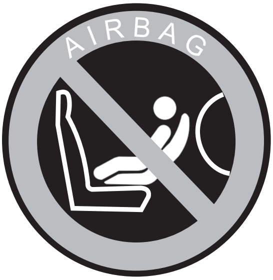
Anchorage locations behind rear seat



11924 SHb

WARNING – EXTREME HAZARD:

- **Do not use a rearward facing child restraint on a seat protected by an airbag in front of it. The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.**
- **NEVER install a child restraint in the front seat of a vehicle fitted with Side Impact Air Bags (SIAB). Remember that it is safest for children to be seated in the rear seats.**



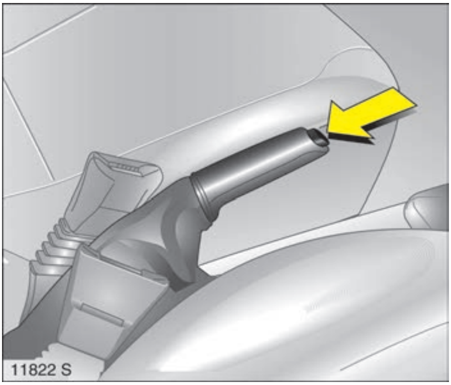
PARK BRAKE AND INTERIOR LIGHTS

Park brake

To apply, pull the lever straight up.

To release, pull the lever slightly upwards, push in the release button on the end of the lever and whilst pressed, lower the lever all the way down.

Never drive the vehicle with the park brake applied.



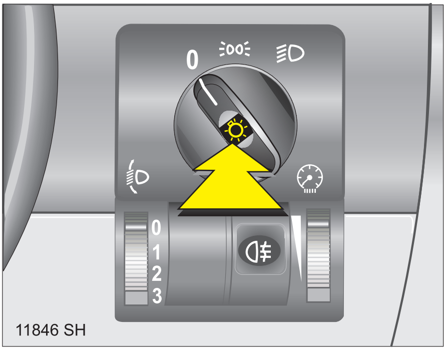
Interior light

The interior light switch is located in the centre of the headlight switch.

Press switch = On

Press switch again = Off

The interior light also illuminates when a door is opened.

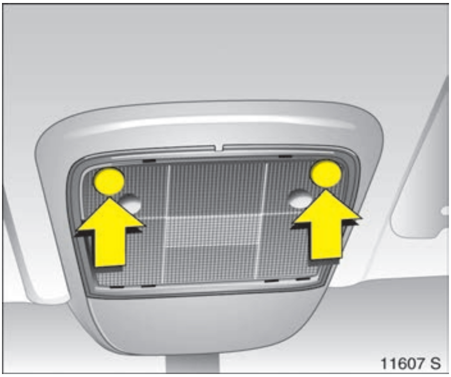


Reading lights, front (if fitted)

With the ignition on

Press button = On

Press button again = Off



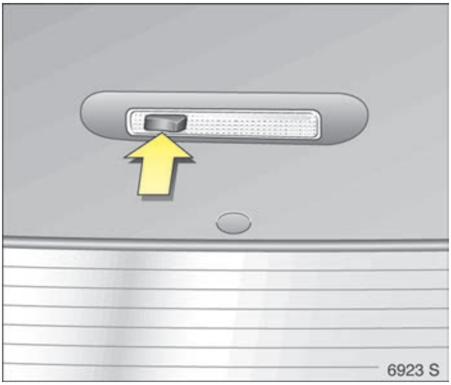
INTERIOR LIGHTS cont.

Rear reading light (if fitted)

Switch to left = Off

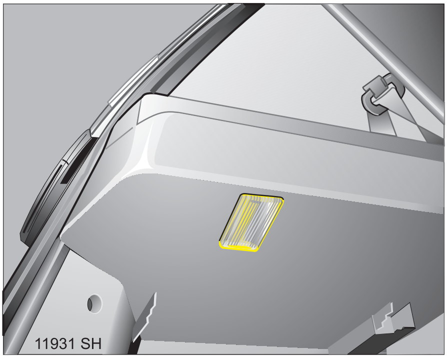
Switch to right = On

Switch to centre = Door



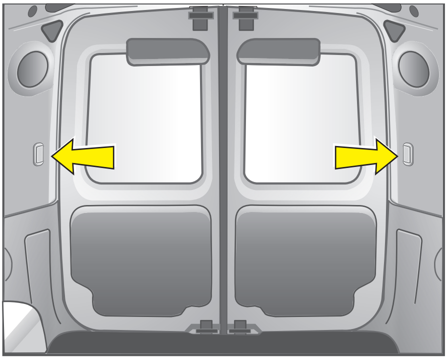
Luggage compartment light – Barina

A light on the passenger side illuminates when the tailgate is opened.



Luggage compartment lights – Combo

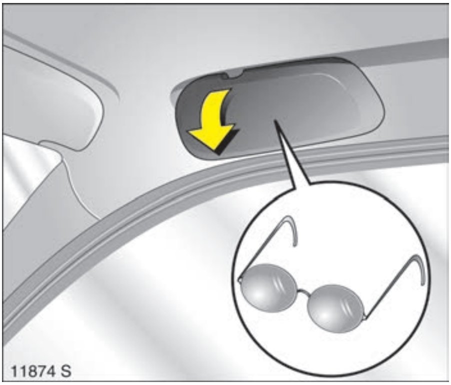
Lights on either side of the luggage compartment come on when the rear doors are opened. Refer to Chapter 6 for bulb replacement details.



CONVENIENCE FEATURES

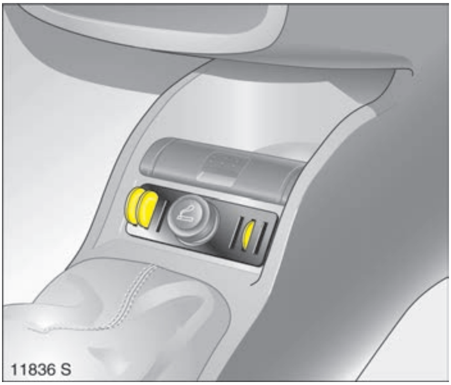
Glasses holder (if fitted)

Above the driver's door, a holder is provided to store sunglasses or reading glasses. Fold down to open.



Coin holder

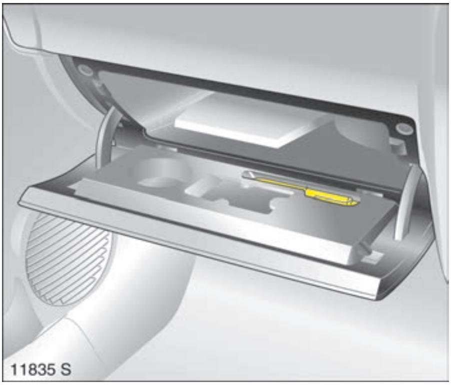
Slots for storing six coins are provided below the ashtray on the centre console.



Glovebox with pen holder

To open the glovebox, pull the opener upwards.

On the inside of the glovebox lid is a recess for pen storage.



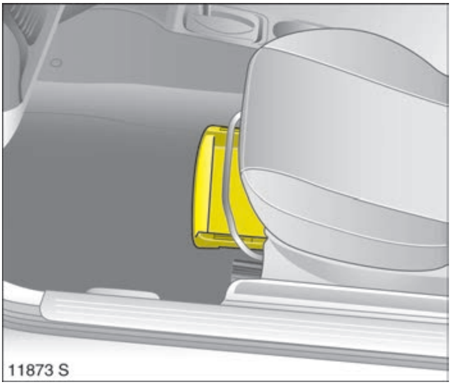
CONVENIENCE FEATURES cont.

Floor tray

A floor tray is provided under the front passenger's seat.

To open, lift the tray by grasping recessed edge and pull forwards.

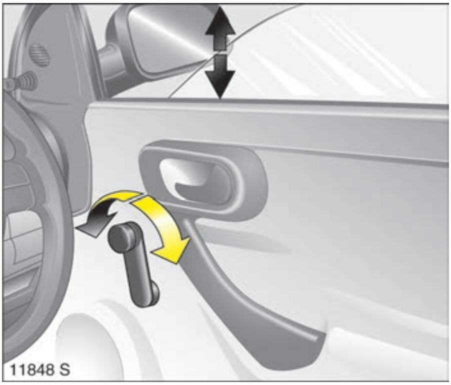
To close, push the tray all the way in to lock in place.



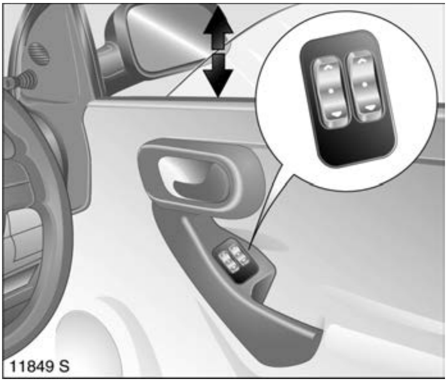
WINDOWS

Window winders

Turn the handle on the door to raise or lower a window.



Electric front windows (if fitted)



The main switches for the windows are located in the driver side door pull-handle. The RHS switch controls the driver's window and the LHS switch controls the passenger window.

An individual switch is located on the front passenger door pull-handle for the front passenger window.

Control lights in the switches illuminate when the switches are operational.

To operate the window in stages, tap the associated switch. For full closing or opening, keep the switch pressed for slightly longer.

To stop the window during full opening or closing, tap the associated switch.

If the window glass encounters significant resistance during full closing (above the half way point), the window movement is immediately reversed to fully open.

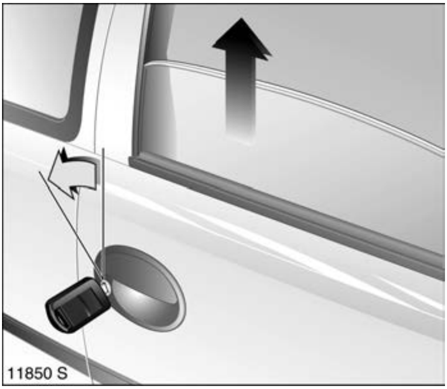
To override this protective system (for example, if the windows do not move easily due to frost) repeatedly tap the associated switch until the window closes.

To avoid risks associated with incorrect use of electric windows, remove the key from the ignition switch when leaving the vehicle.

WINDOWS cont.

Closing electric windows from outside

Hold the key in the driver's door lock in the door-locking position until the windows are closed.



Overload

If the system is overloaded, the power supply is automatically cut off for a short time.

Interruption of power supply

Automatic opening and closing of the windows is not possible after an interruption of the power supply or a drop in battery voltage.

Activate the window electronics from inside the vehicle as follows:

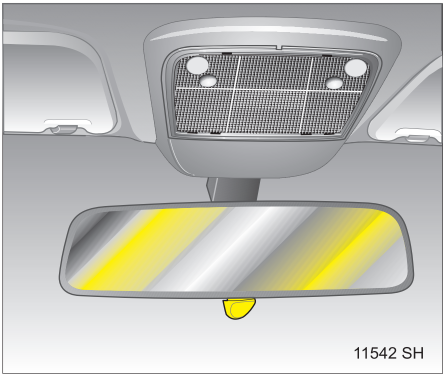
1. Close the doors.
2. Switch on the ignition.
3. Close the window.
4. Hold the switch in the closed position for at least 5 seconds.
5. Repeat for each window.

MIRRORS

Interior rear view mirror

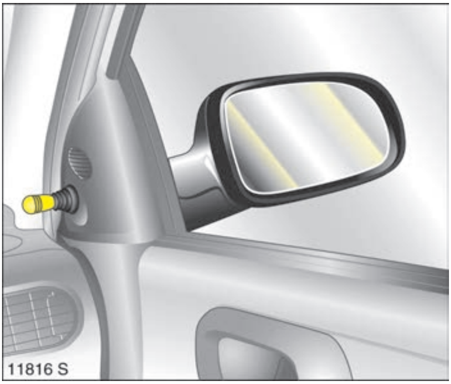
Grasp the mirror and swivel to adjust the rear view.

Swivel the lever on the lower edge of the mirror to reduce headlight glare or 'dazzle' at night.



Exterior mirrors

Grasp the lever inside the vehicle and tilt the mirror up / down and in / out as required.



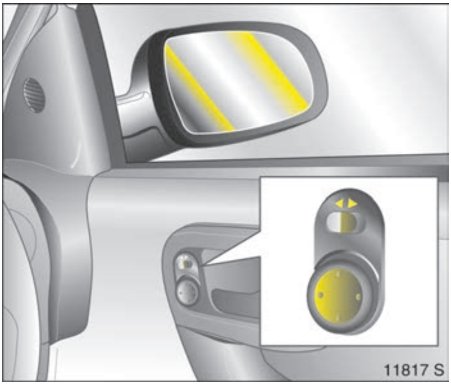
Power mirrors (if fitted)

The power mirror control is located in the driver's door pull-handle. The control has a selection rocker switch (upper) and a directional toggle switch (lower).

Use the rocker switch to select the left-hand side or right-hand side mirror. When the ignition is on, the four-way toggle switch can be used to adjust the angle of the selected mirror.

Demisting of the outside power mirrors is provided when the rear window demister is switched on.

Refer to Chapter 1.



CHAPTER 4

Driving

Page
4-2 Engine starting
4-2 Running-in
4-3 Safety
4-4 Manual transmission
4-6 Automatic transmission
4-9 Brakes
    Anti-lock brake system (ABS)
4-10 Driving precautions
    Tyre traction
    Snow chains
4-12 Traction control

ENGINE STARTING

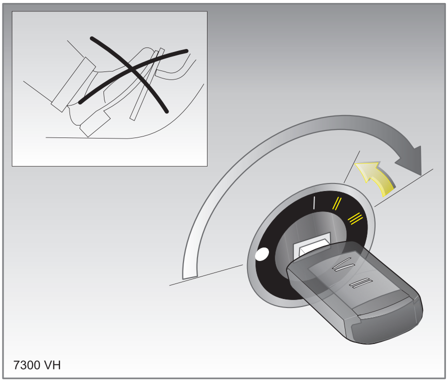
1. Apply the park brake firmly and release it only after you have started the engine and are ready to drive off.
2. **Manual:** Press the clutch pedal and shift the shift lever to the neutral position. The clutch pedal can now be released.

   Automatic: Move the shift lever to **P** (park) or **N** (neutral) to start the engine.

   Note: To move the shift lever away from the **P** position, the ignition must be switched on and the brake pedal pressed.
3. For cold and hot conditions, start the engine as follows:

   Note: Do not press the accelerator pedal prior to or during starting. This increases cranking time and inhibits engine starting.

   Turn the key to the start position and release it when the engine starts.



If the engine does not start and the check engine warning light (⚙) on the instrument panel flashes, turn the ignition off for at least 2 seconds before attempting to start the engine again.

If the engine fails to start, consult a Holden Retailer.

Running-in (for the first 1000 km)

- Drive your vehicle at various speeds. Do not use full throttle and never allow the engine to labour.
- Make good use of all gears. Press the accelerator pedal to a maximum of three quarters of the available pedal travel in all gears and drive ranges.
- Unless necessary, try not to brake too hard during the first 200 km or after new brake pads have been fitted.

Switching off the engine

If the engine temperature is very high, for example after driving in hilly areas, allow the engine to idle for approximately 2 minutes before switching it off (in order to prevent heat accumulation).

SAFETY

Before entering the vehicle

1. Check that windows, mirrors and lights are clean.
2. Check the tyres are not flat.

Before driving off

1. Be sure that all doors are secured.
2. Position your seat for comfortable driving.
3. Adjust the rear vision mirrors.
4. Fasten seat belts.
5. Check that all the warning lights illuminate when you turn the key to start the engine. Refer to Chapter 1.

   Automatic: With the engine running, press the brake pedal before moving the shift lever away from the **P** or **N** position.

Parking

1. Apply the park brake.
2. Automatic transmission: place in **P** (park).

   Manual transmission: place in first or reverse gear.
3. Close the windows.
4. Switch off the exterior lights.
5. Turn ignition key to the lock position and remove the key.
6. Lock the doors and set the deadlock as appropriate (refer to Chapter 2).

WARNING:

- **Be careful where you park or drive. As with any vehicle, do not park or operate this vehicle in areas where combustible materials such as dry grass or leaves can come in contact with a hot exhaust system.**
- **Never leave the engine running in an enclosed space, such as a closed garage or underground car park.**

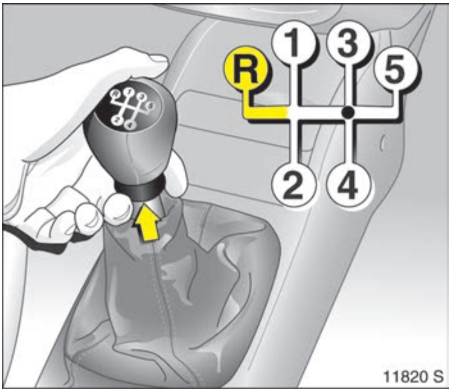
MANUAL TRANSMISSION (if fitted)

This system has five forward gears and a reverse gear. The shift pattern illustrated, is found on the top of the gear shift lever.

When selecting fifth gear you must shift the shift lever sideways against light spring pressure in order to pass into the gear.

To select reverse gear, lift the ring beneath the knob on the gear shift lever and move the lever into the reverse position.

If the gear does not engage easily, then release and press the clutch pedal or try moving to another gear, before trying again.



Shift speeds

The chart shows the recommended speeds at which gear changes should be made for normal driving. Using shift speeds in the 'economy' category will assist in maximising fuel economy.

Upshifting at higher road speeds may be necessary according to varying driving conditions such as load, road gradient, during overtaking and when other than light acceleration is required.

Manual transmission change speed charts

Vehicle	Barina Sxi CD		Barina SRi		Combo	
Gear change	Normal	Economy	Normal	Economy	Normal	Economy
1st~2nd	24 km/h	15 km/h	24 km/h	15 km/h	24 km/h	15 km/h
2nd~3rd	40 km/h	20 km/h	40 km/h	20 km/h	40 km/h	20 km/h
3rd~4th	64 km/h	30 km/h	64 km/h	30 km/h	64 km/h	30 km/h
4th~5th	72 km/h	40 km/h	72 km/h	40 km/h	72 km/h	40 km/h

MANUAL TRANSMISSION (if fitted) cont.

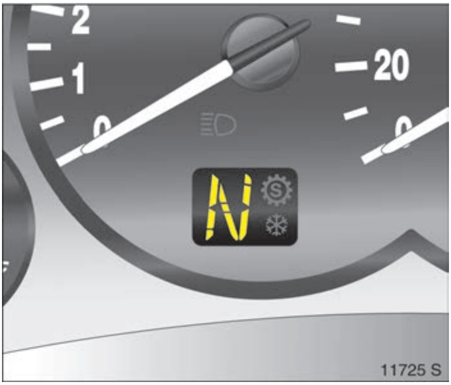
Operating notes

- When shifting from one gear to another, be sure to press the clutch pedal fully to avoid clashing and possible chipping of the transmission gears.
- Never attempt to engage reverse gear until the vehicle has completely stopped. A slight pause (a few seconds) between pressing the clutch pedal and moving the shift lever into reverse gear is desirable. This allows the rotating components to stop and helps avoid gear clashing. Whenever reverse gear is selected with the ignition on, the reverse lights illuminate.
- Shift the shift lever with a moderate effort to allow time for the transmission synchronisers to work properly.
- Do not drive with your foot resting on the clutch pedal. This will cause substantial clutch wear.
- When stopped on an incline, do not hold the vehicle by slipping the clutch. Use the park brake or brake pedal.
- To maintain safe speeds on a steep downgrade and to reduce brake wear and overheating, shift into a lower gear before starting the descent.
- Do not overspeed the engine when shifting down to the next lowest gear.

AUTOMATIC TRANSMISSION (if fitted)

Shift lever selector position indicator

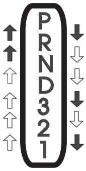
When the ignition is on, the current shift lever position is displayed on the instrument panel below the tachometer. The engine will not start unless the shift lever selector is in **P** or **N**.

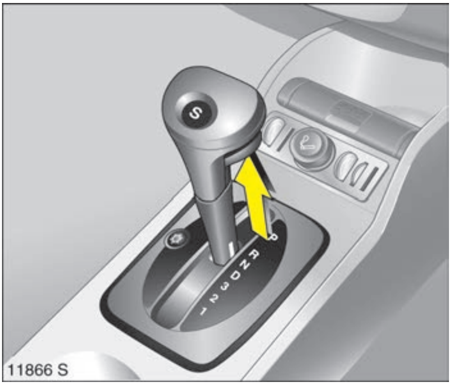


To move the shift lever out of the **P** position, switch on the ignition, press the brake pedal and raise the gear selection release button (under the shift lever, as illustrated).

Raise the release button when shifting into any position indicated by a black arrow.

You can select any gear position marked by the outline arrow without raising the release button.



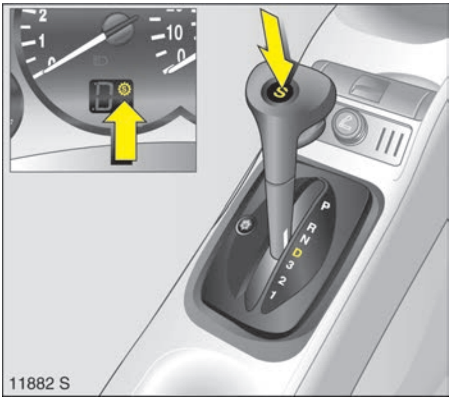


Sports / economy drive

Press the button on top of the shift lever to switch between sports and economy drive programmes.

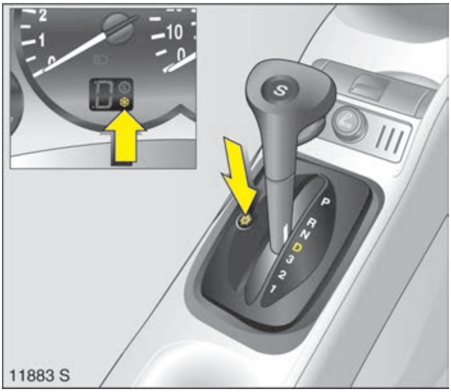
When the sports programme (higher engine speeds) is selected the indicator light on the instrument panel illuminates.

Note: After the engine has initially been started and **D** selected, the economy programme is automatically selected.



AUTOMATIC TRANSMISSION (if fitted) cont.

Starting-off aid (slippery conditions)



In the event of starting-off difficulties in slippery conditions, press the button, as illustrated. The shift lever must be in **P**, **R**, **N**, **D** or **3**.

When the starting-off programme is selected, the indicator light on the instrument panel illuminates.

When the vehicle moves off, it will be in third gear.

Press the button again to switch the system off.

The system automatically switches off if:

- the shift lever is moved to position **2** or position **1**
- the ignition is turned off.

Operating notes

P (park)	This stops the front wheels from turning and so should be selected (together with the park brake) when leaving the vehicle. Never select **P** until your vehicle is fully stopped. The brake pedal must be pressed and the ignition on before the shift lever can be moved away from the **P** position.
R (reverse)	Never select **R** until your vehicle is fully stopped. Reversing lights will operate when **R** is selected and the ignition is on. After reversing, make sure the vehicle has fully stopped before proceeding forward again.
N (neutral)	This is the out-of-gear position. You may restart a stalled engine while the vehicle is still moving or stopped.
D (fourth)	This is the most effective position for normal or freeway driving. The **D** position gives maximum fuel efficiency, as the transmission can choose the appropriate gear (**1** through to **D**) for the load and driving conditions.
3 (third)	Third is most effective when overtaking and gives responsive acceleration and deceleration, especially in hilly areas. This position allows the transmission to shift between first, second and third gear as conditions require. Drive (4th gear) is excluded.
2 (second)	Use this position when going down a steep gradient to avoid excessive use of the brakes. The transmission will shift between first and second gear as required. Move the lever back into the drive position to return to normal driving.
1 (first)	Use this position when strong braking effect is needed down a very steep gradient. Remember to move the shift lever back to drive position so that the transmission will again up shift into higher gears. If 1st gear is selected at too high a speed then the transmission remains in 2nd gear until you have slowed down sufficiently.

AUTOMATIC TRANSMISSION (if fitted) cont.

Tips for better driving

- If selecting a lower gear than **D** while driving, ensure vehicle speed is sufficiently reduced before moving the shift lever.
- Do not press the accelerator pedal with the brakes on in either **1**, **2**, **3**, **D** or **R**. This will overheat the transmission.
- Do not use the accelerator pedal to hold the vehicle on a slope. Use the brakes.
- Do not coast the vehicle in neutral (**N**) – this reduces your control and negates the engine braking power.

Transmission operating characteristics

Neutral idle control: This feature is designed to reduce fuel consumption. Neutral Idle Control electronically switches the transmission into neutral (without you having to move the shift lever) when the engine is idling in a forward gear (**1**, **2**, **3**, **D**), the accelerator pedal is not pressed, the brake pedal is pressed and the vehicle is stationary.

When the brake pedal is released (to move from stationary) the transmission electronically switches back to the selected position of the shift lever.

Cold star operation: By means of delayed shifting (higher engine speeds) following a cold start, the operating temperature programme quickly and automatically brings the catalytic converter to the temperature required for optimum pollutant reduction.

Adaptive shift programmes: Adaptive programmes automatically adapt gear shifting to suit the prevailing driving conditions, such as if the vehicle is carrying a heavier than normal load, or is being driven on inclines.

Fault mode: If the vehicle suddenly will not accelerate as usual, or will not shift down to a lower gear when you press the accelerator pedal to the floor, or the automatic transmission fault light (in the instrument panel) is illuminated, then a fault is indicated in the transmission.

Refer to Chapter 1 for transmission fault light details. Use the shift lever to manually shift through the gears. Second gear is not available in Fault Mode. In Fault Mode the gears are as follows:

1 = 1st gear

2 = **3rd** gear

3 = **4th** gear

D = 4th gear

N = Neutral

R = Reverse gear

P = Park

Consult a Holden Retailer as soon as possible after a fault is indicated.

BRAKES

Braking precautions

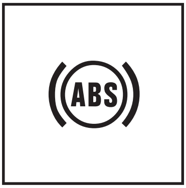
- The power assisted brakes fitted to your vehicle use vacuum from the engine when it is running. Never drive the vehicle down steep grades with the engine not running. Never coast with the engine switched off.
- Driving through water may affect performance. Applying the brakes lightly will indicate whether the brakes have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with an assured clear distance ahead until brake performance returns to normal.
- Do not obstruct the brake pedal with ill-fitting floor mats or any other material under the pedal, which causes interference with normal pedal movement.
- Position your seat so you can push the brake pedal satisfactorily at all times.

Anti-lock Brake System (ABS) (if fitted)

Anti-lock Brake System (ABS) continuously monitors the vehicle’s brake system and prevents the wheels from locking, irrespective of the road conditions and tyre grip. It starts to regulate the braking effect as soon as a wheel shows a tendency to lock. The vehicle remains steerable, even in the event of panic braking, for instance on bends or when swerving to avoid an obstacle.

However, do not let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by adopting a responsible driving style.

In an emergency braking situation the driver should keep full force on the brake pedal, without 'pumping' the brake pedal. 'Pumping' the brake pedal can reduce brake efficiency when ABS is controlling the braking.



The ABS warning light illuminates for a few seconds when the engine is switched to position **II** (ignition on). If it does not go out, or if it illuminates when driving, there is a defect in the ABS. The vehicle’s brake system remains operational but without ABS assistance. Consult your Holden Retailer as soon as possible.

The braking effect is regulated by the ABS every millisecond during braking.

When your vehicle is in a critical braking condition ABS is noticeable through pulsing of the brake pedal and the noise of the regulation process. This reminds you to match your speed to the road conditions, even though ABS is in control of the braking.

Shortly after driving off again, the system performs a self check which may be audible.

Brake assist

Brake assist allows you greater control of vehicle deceleration in both standard and emergency braking situations and reduces the pressure and effort needed to stop the vehicle.

Engine misfire

Reduce speed and do not tow a caravan or trailer until the misfiring is corrected at the nearest Holden Retailer. Otherwise, the catalytic converter and exhaust system may overheat, resulting in vehicle damage.

DRIVING PRECAUTIONS

Power steering

If the power steering is rendered ineffective because a fault has developed with the power steering system, you can still steer the vehicle.

However, due to the much greater effort required to steer, it is recommended that you have the problem fixed promptly.

Loose articles

Do not leave loose articles or luggage in the passenger compartment. Whenever possible, firmly secure loads stowed in the luggage compartment. Refer to Chapter 10.

WARNING:

Gas cylinders can leak, creating a risk of fire or explosion. As a precaution, ensure adequate ventilation when carrying gas cylinders. They must be restrained from rolling around, and where possible, placed in the load area of the vehicle. It is recommended that if gas cylinders are frequently transported that a purpose-built carrying compartment be used. Transportation of gas cylinders is regulated by legislation in some states.

Tyre traction

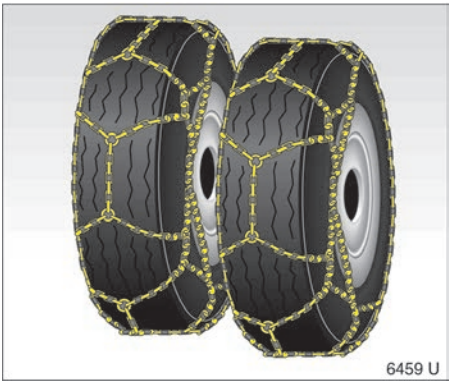
A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other materials are on the road surface. Adjust driving practices and vehicle speed to the road conditions.

DRIVING PRECAUTIONS cont.

Snow chains (Combo)

Combo vehicles are fitted with 175/65 R14 tyres.

- This vehicle is a front wheel drive vehicle so snow chains are only to be fitted on the front (driving) wheels.
- They must be fitted symmetrically on the tyre to ensure that they are seated concentrically. Only fine-linked chains, not protruding more than 15 mm on the tyre tread and inside of the tyre (including the chain lock) should be used.
- Depending on design, large hub caps may come into contact with parts of the chains. In such cases, remove the hub caps.



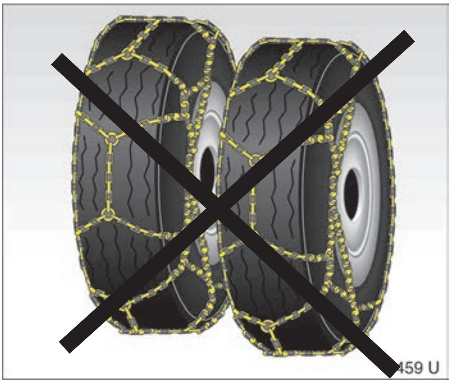
WARNING:

Tyre chains can only be used at speeds up to 50 km/h and, when travelling on roads that are free of snow they should only be used for brief periods, since they are subject to rapid wear on hard roads and may snap.

Snow chains (Barina)

Barina models are fitted with 185/55 R15 or 195/45 R16 tyres.

Due to lack of clearance, tyre chains are not to be fitted.



TRACTION CONTROL (if fitted)

Operation

Traction control helps prevent the driving wheels from spinning, irrespective of the road conditions and tyre grip. As soon as at least one driving wheel starts to spin, traction control reduces engine output and applies the brakes to the spinning wheel, as necessary.

This can improve the vehicle steering control and driving power, particularly on snow and ice, as well as on wet or slippery roads. Traction control helps you to keep control of the vehicle and reminds you to match your speed to the road conditions.

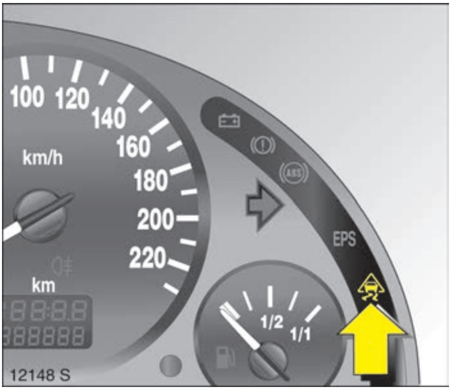
Note: Do not let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by adopting a responsible driving style.

The ⛐ light on the instrument panel illuminates for a few seconds when the ignition is switched on. If ⛐ does not illuminate or if it illuminates during driving, a fault is indicated in the system and traction control will not be operational.

Consult your Holden Retailer.

The ⛐ light on the instrument panel flashes when the traction control system is operating, indicating that the vehicle is in a critical situation.

When this occurs, engine output may be reduced (the sound of the engine may change) and the vehicle may be braked automatically to a small degree.



Notes

CHAPTER 5

Fuel

Page

5-2 Fuel
5-3 Petrol filling
5-5 Emission control
5-6 Reducing fuel consumption

FUEL

EXHAUST WARNING – CARBON MONOXIDE POISONING

- **Exhaust gases can produce carbon monoxide; a dangerous gas, which can cause unconsciousness and even death to both humans and animals.**
- **You could inhale the gases if the exhaust system on your vehicle is faulty.**
- **To protect against exhaust gases entering the vehicle, the exhaust system and the body should be inspected:**
  - **each time the vehicle is serviced,**
  - **whenever a change is noticed in the sound of the exhaust system,**
  - **whenever the exhaust system, underbody or rear of the vehicle is damaged.**
- **Take the vehicle to your Holden Retailer if you think your vehicle needs inspecting.**
- **Do not sit (or leave children or pets) in a parked vehicle for any extended period of time with the engine running.**
- **Do not run the engine in an enclosed area (such as the garage) any longer than is needed to move the vehicle.**
- **Driving with the tailgate / rear doors open is not recommended. If you must travel with tailgate / rear doors open, close the windows and ensure that the heater controls are set to outside air (not recirculated air) directed to the face, with the fan on the highest speed. Do not exceed 50 km/h.**

When the vehicle is driven for the first time, wax and oil on the exhaust system may evaporate producing smoke-like emissions which should not be inhaled. Allow the wax and oil to evaporate while the vehicle is in the open air.

LPG conversion

These vehicles have not been designed by Holden to be converted to LPG and Holden does not provide LPG conversion kits for these vehicles. Please refer to the warranty section in Chapter 9. Your warranty may be invalidated to the extent that any LPG alterations affect the specifications of your vehicle.

WARNING – USE OF FUEL CONTAINING ETHANOL

When purchasing such fuel, we recommend that your vehicle be operated on fuel containing no more than 10% ethanol. Purchasing your fuel from a reputable fuel retailer may reduce the risk of purchasing fuel with more than 10% ethanol or fuel which contains abnormal fuel properties.

Under no circumstances should you use fuel containing more than 10% ethanol. Use of such fuels may result in engine malfunction, starting and operating difficulties, and materials degradation. These adverse effects could result in permanent damage to your vehicle and personal injury. It is also important to note that when ethanol blends are used, fuel consumption can be expected to increase due to the lower energy content of ethanol.

The use of fuel containing more than 10% ethanol may also affect your New Vehicle Warranty to the extent that Holden considers that the fuel affects the specifications and quality of your vehicle.

PETROL FILLING

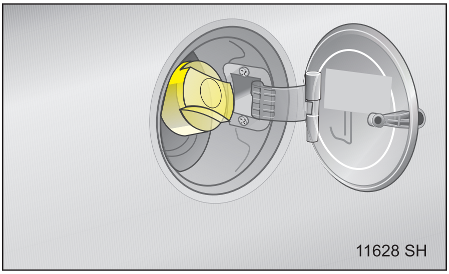
WARNING:

- **Petrol should be regarded as extremely flammable and highly explosive.**
- **Always turn off the engine and any mobile phones when refuelling.**
- **Do not smoke or allow open flames or sparks near the vehicle when refuelling.**
- **If petrol fumes are smelt while driving, the cause should be found and corrected without delay by a Holden Retailer.**

The petrol filler is located on the driver's side of the vehicle.

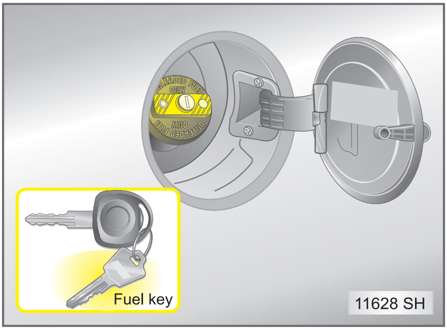
MODELS WITH CENTRAL LOCKING

The petrol flap is unlocked when the doors are unlocked and locked when the doors are locked.



MODELS WITHOUT CENTRAL LOCKING

Pull the petrol flap to open it. Unlock the petrol filler cap by inserting the key and turning the key anticlockwise. Remove the cap by turning it anticlockwise.



After refilling, firmly tighten the cap clockwise. For vehicles with a lockable fuel filler cap, turn the key clockwise to lock the cap. Close the petrol flap.

Over filling of the petrol tank can affect the evaporative Emission Control System and can also result in a smell of petrol inside the vehicle. Therefore:

1. Petrol tanks should always be filled at the intermediate or fast fill rate. Do not add any more petrol after the petrol filler first clicks off (or petrol blows back) – as this allows room for the petrol to expand inside the tank.
2. It is permissible to 'trickle fill' petrol tanks when vehicles are to be driven for more than 50 km straight after the tank is filled. However, this is not recommended on hot days (over 30°C).

Wipe off any overflowing petrol from the vehicle immediately; close the fuel opening then spray or splash with water.

PETROL FILLING cont.

Refer to Chapter 8 for fuel tank capacities.

Petrol filler nozzle restrictor

To help the atmosphere, your vehicle has been designed to operate on unleaded petrol. A petrol nozzle restrictor is fitted to ensure that only unleaded petrol is used. This allows the smaller diameter, unleaded petrol nozzle to open the hinged flap inside the filler neck, so that petrol can be added to the tank.

The leaded petrol nozzle is wider and therefore cannot open the flap.

The use of fuel other than unleaded fuel will seriously damage the fuel system of your vehicle (particularly the catalytic converter and oxygen sensor) and may void your Warranty.

Petrol requirements R.O.N. (Research Octane Number)

Use clean, unleaded petrol of at least 91 octane rating. High octane (Premium unleaded) can be used and will provide slight improvement in engine performance.

WARNING:

The use of any fuel other than the fuel specified, may cause serious damage to your vehicle and may void your New Vehicle Warranty. Only clean fuel of good quality should be used.

EMISSION CONTROL

Your vehicle is fitted with emission control systems which are designed to reduce the amount of hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) that are emitted from the engine and fuel system into the atmosphere. Hydrocarbons and oxides of nitrogen, when exposed to sunlight under certain conditions, contribute to photochemical smog. In addition, carbon monoxide is toxic when it becomes highly concentrated in the air.

Owner responsibility

Vehicles sold and serviced within Australia have been designed to comply with Australian Design Rules and State Regulation emission requirements.

The engine or exhaust system of your vehicle must not be modified in any way. Any change to the Manufacturer's design may increase the emissions or otherwise defeat the intent of the regulations.

WARNING:

Any person who removes, modifies or hinders any part of the emission control system fitted to a vehicle will be contravening Australian Design Rules. Refer to A.D.R. 28/01 (External Noise for Motor Vehicles) and – A.D.R. 79/00 (Emission Control for Light Vehicles) for Barina & Combo.

It is also illegal to drive a vehicle modified in this way.

Maintenance requirements

To ensure continuing compliance with the regulations you must maintain your vehicle's emission control system as per your vehicle's service manual, at the frequency shown in the Maintenance schedule in chapter 12.

It is recommended that the necessary servicing be performed by an authorised Holden Retailer who has the specialised servicing equipment and trained personnel available to ensure that the adjustments and services specified are carried out.

REDUCING FUEL CONSUMPTION

Engine

Maintain the engine in peak mechanical condition by having it serviced regularly in accordance with the Maintenance schedule in Chapter 12. This ensures items such as the spark plugs and air cleaner are maintained for minimum fuel usage and peak engine performance.

Tyre pressure

Inadequate tyre pressure causes higher fuel consumption and increased tyre wear. Keep the tyres at the recommended pressures.

Wheel alignment

Maintain correct front wheel alignment. Incorrect alignment makes the front wheels drag and increases fuel consumption.

Warm ups and idling

Avoid long engine warm ups through idling. They are unnecessary and waste fuel. An engine reaches its efficient operating temperature most effectively when driving.

You should also avoid long engine idling. If you have to wait for more than a couple of minutes it is worthwhile to switch off the engine and conserve fuel. Three minutes of idling corresponds to approximately 1 km of driving.

Accelerating, driving and braking

Accelerate gently and avoid rapid starts. Sudden bursts of speed, full throttle acceleration and hard braking are certain fuel wasters.

Drive the vehicle at steady speeds where possible (after run-in). It is desirable to reach top gear as soon as possible, but under no circumstances should you force the engine to labour in top gear.

Riding the brake

'Riding the brake' by resting your foot on the brake pedal when you do not intend to brake, can cause overheated brakes. This can wear out the brake pads faster, damage the brakes and waste fuel.

Air conditioning (if fitted)

Turn off the air conditioning when not required, to reduce fuel consumption.

Roof racks (if fitted)

Roof racks can increase fuel consumption by 1 litre per 100 km or more, due to the increased air resistance. They should therefore be removed when not in use.

Loading

Unnecessary weight increases fuel consumption, especially when accelerating. In city traffic, a load of 100 kg can increase fuel consumption by 0.5 litre per 100 km.

Notes

CHAPTER 6

Emergencies

Page

6-2 Accidents
  Being involved
  Being a witness
  Medical assistance
6-4 Flat tyre
6-10 Towing your vehicle
6-12 Engine overheating
6-14 Flat battery
6-16 Airbags
6-18 Bulb replacement
6-30 Fuses

Your new vehicle is covered for three years by 24 hour Roadside Assistance. Refer to Chapter 9.

ACCIDENTS

All motorists are advised to learn what to do at the scene of an accident, particularly where persons are injured. Injured people can choke to death if their air passages are not cleared. They can bleed to death unless the bleeding is stopped. They may require mouth-to-mouth resuscitation or may have to be moved, even though badly injured.

It is important that you understand how to avoid further damaging an injured neck or back or other broken limbs. In all cases, ensure safety for the rescuers, victims and bystanders.

The following notes may help.

Part 1. Accident – being involved

If you are involved in an accident you are advised to do as follows:

- Stop immediately and remember to turn off the engine and apply the park brake.
- Remember that time is vital. Remain calm and alert. Think quickly and clearly.
- Give all possible assistance to all injured persons (refer Part 3. Medical assistance).
- Send for police and ambulance if anyone has been injured. Give information as accurately as possible. Give the exact location, the number of injured people and a brief report on the overall situation.
- Warn all other traffic approaching the scene. Turn off all ignition switches. Stop any smoking and mobile phone use near spilt petrol. In darkness, try and light up the area to warn others - use hazard lights, a torch, headlights. Do not use flammable items.
- Clear the road of accident debris.
- Exchange your name, address, vehicle registration number and the vehicle owner's name and address with the other parties involved in the accident.
- If damage to property only has occurred, report the facts to the owner of the damaged property, to his or her representative, to any police present at the scene or to the nearest Police Station.
- Try to note all important facts because such details may be important if needed later.

Part 2. Accident – being a witness

If you witness a road accident or it becomes your task to stop and help at the scene of an accident:

- Keep in mind that an observant witness can prove most helpful. Some day you yourself might be very glad of help from a witness.
- Do not stop at the scene of an accident just to be a spectator.
- Where other people are already in attendance and giving assistance, you should stop only if you can contribute assistance.
- Give what assistance you can to any injured persons. Refer Part 3. Medical assistance.

ACCIDENTS

Part 3. Medical assistance

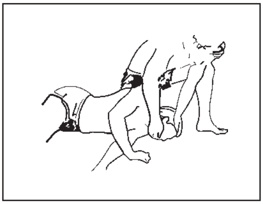
This information is basic first aid information which is intended as a guide only and may not be applicable in all situations. You should always defer to a trained medical officer or other person with first aid knowledge. Protective equipment, such as rubber gloves are recommended.

Keep calm and think clearly. Your experience may not be much but do your best.

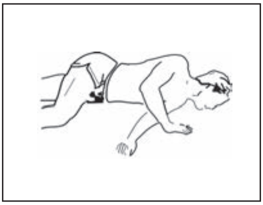
- Look after the unconscious person first. Check airway, breathing and circulation. If there is no breathing, check if air passages are clear; that is, the nose and mouth. Use your fingers to clear air passages if necessary. If the air way is clear then mouth-to-mouth resuscitation may be needed at once.
- You must be very careful when moving an injured person. It is best not to move at all, except if in danger, as serious and permanent damage can be done to an injured neck or back if not supported during movement.

  AVOID BENDING OR TWISTING A NECK OR BACK. KEEP THEM STRAIGHT.

  All injured limbs require support when an injured person has to be moved.
- Unconscious people can choke. To help avoid this:
  - carefully turn the person to one side
  - tilt their head back slightly
  - wipe out the mouth with your finger to remove blood, vomit, broken teeth or dentures.



- Provided it is not dangerous to do so due to injuries, an unconscious person will do best in the following position:
  - lay the person on one side
  - bend the uppermost knee until the thigh is at a right angle to the body
  - bend the uppermost shoulder and elbow so that the hand lies near the face
  - gently pull the underneath arm so that it rests straight on the ground free of any body weight.



- Try to stop bleeding by applying direct pressure, using your hand, or by pressing torn flesh together. Use any clean cloth available. Fold cloths to make pads. If necessary press one pad on top of another. Keep pressure around edges of a wound but never use a tourniquet.
- Shock may be treated by reassurance, relieving pain, controlling any bleeding and keeping the injured person warm but not hot. It is best not to give any fluids and never alcohol.
- If the injured person is in danger and has to be moved, try and have three or four people help and concentrate on not bending or twisting the neck, spine and injured limbs. Keeping the neck and spine straight is most important.

FLAT TYRE

WARNING:

- **Use the jack only for lifting the vehicle when changing wheels.**
- **Never get beneath the vehicle when it is supported only by the jack.**
- **Do not start or run the engine while the vehicle is supported only by the jack.**
- **All passengers should be out of the vehicle when it is being jacked.**
- **Use the jack only at the designated lifting points. Use in other locations could damage the vehicle.**
- **The vehicle should only be jacked on hard, level surfaces.**
- **If your vehicle is fitted with alloy wheels and supplied with a steel spare wheel, the flat tyre on the alloy wheel should be repaired and refitted to the vehicle as soon as possible.**

1. Park on a level surface.
2. Ensure the wheels are pointing straight ahead and set the park brake firmly.
3. Remove the ignition key.

   Lock the steering and move the shift lever to reverse gear (manual) or in Park (automatic).
4. Remove the spare wheel, jack and tool kit.

   The details of this step depend on the model of your vehicle and the size of the spare wheel supplied. Refer to the following information on:
   - Barina – full size spare wheel.
   - Barina – temporary spare wheel.
   - Combo.

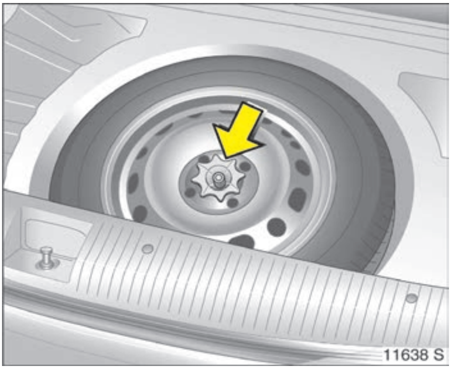
FLAT TYRE cont.

Barina – full size spare wheel

The spare wheel, jack and tool kit are stored under the luggage compartment floor area.

Lift the floor cover to access and remove the spare wheel. The spare wheel is secured by a large plastic wing nut.

The jack and tool kit are stowed in a bag underneath the spare wheel.



Barina – temporary spare wheel

WARNING: TEMPORARY SPARE WHEEL

Your vehicle is fitted with a temporary spare wheel. The temporary spare wheel is for emergency spare use only; drive carefully and do not exceed 80 km/h when the wheel is fitted on the vehicle.

Your vehicle's handling capabilities will be reduced when the temporary spare wheel is fitted. Only one temporary spare can be used on the vehicle at the one time. The flat tyre should be repaired and refitted to the vehicle as soon as possible.

Some Barina models are provided with a temporary spare wheel. This wheel is smaller than those fitted to the vehicle. Ensure that you adhere to the following precautions. Your temporary spare must have:

- a maximum load rating of not less than 475 kg or a load index of 82
- a speed category symbol of not less than L.

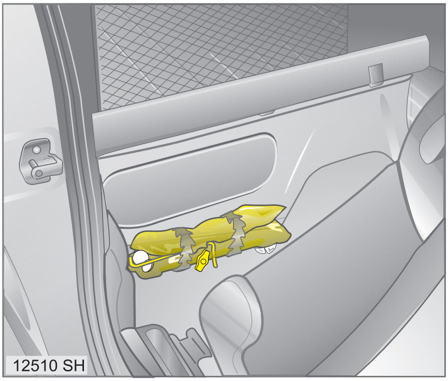
RIM SIZE	TYRE SIZE	INFLATION PRESSURE
6J X 15	185 / 55 R15 82H	260 kPa front; 240 kPa rear

FLAT TYRE cont.

COMBO

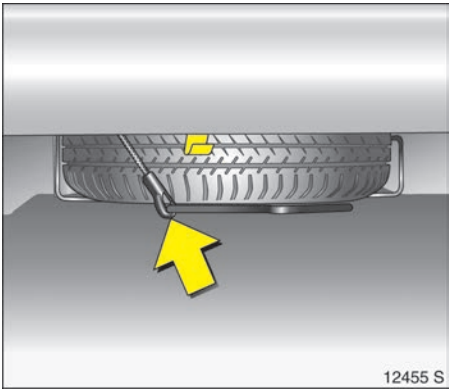
The jack and tool kit are stored behind the driver's seat. The spare wheel is located under the rear of the vehicle.

Remove the tools by unfastening the rubber retaining bands. Release the jack by turning the jack retaining screw anticlockwise.



Remove the spare wheel as follows:

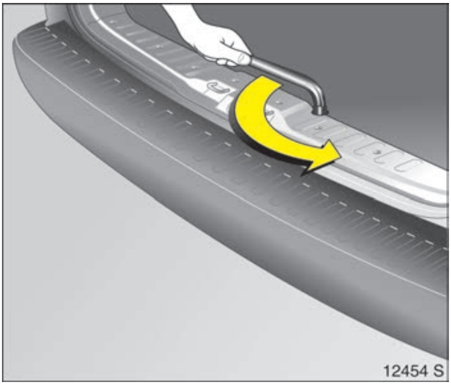
Unhook the catch that prevents unintentional lowering of the spare wheel.



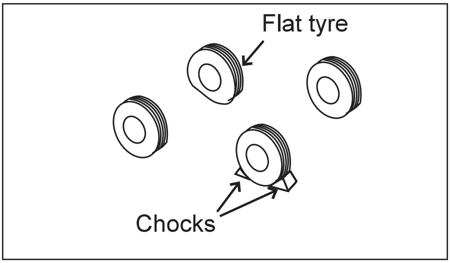
Locate the spare wheel retaining bolt at the rear of the luggage compartment.

Use the wheel brace provided in the vehicle tool kit to turn this bolt anticlockwise and lower the spare wheel a short way.

Lower the spare wheel to ground level and remove it from its retaining frame.



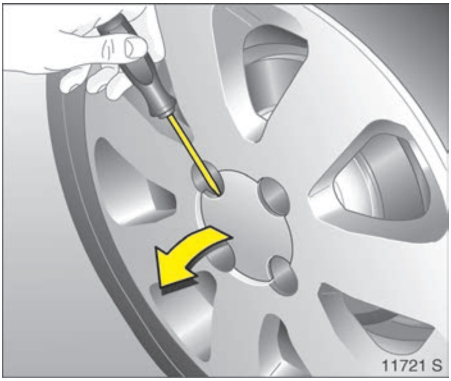
FLAT TYRE cont.



4. Chock the wheel diagonally opposite the flat tyre by placing wedge blocks, any available blocks of wood or rocks behind and in front of it.
5. Remove the wheel trim, if fitted.

   STEEL WHEELS

   Remove the wheel trim using the tool provided in the vehicle tool kit.



ALLOY WHEELS

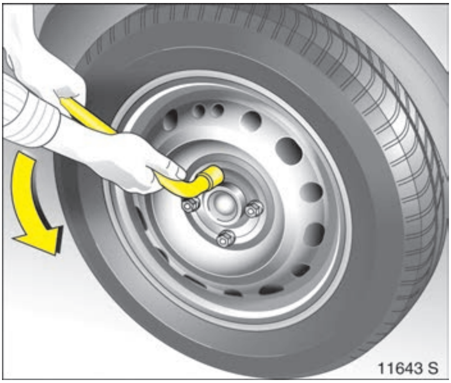
If centre caps are fitted, use a screwdriver (provided in the tool kit) to remove the cap using the following method.

Position the screwdriver in the recess at the side of the hub cap and lever the cap partly off. Place the screwdriver in the opposite bolt hole and lever the cap fully off the wheel.

Use the screwdriver to remove the plastic wheel bolt caps (if fitted).

ANTI-THEFT WHEELS

Use the key provided in the tool kit to remove the centre cap.



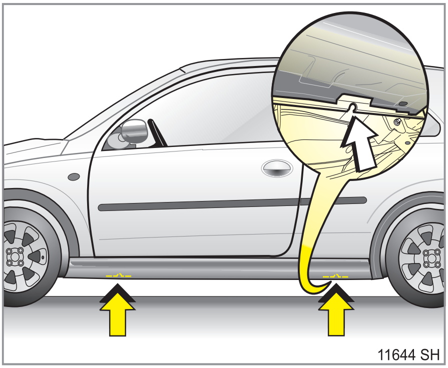
6. Loosen (but do not remove) the wheel bolts with wheel bolt wrench.

FLAT TYRE cont.

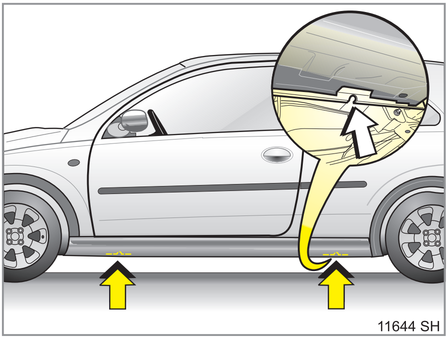
7. Depressions on the lower edge of the vehicle underbody indicate the points where the jack is to be placed.

   SIDE-SKIRT BODY TRIM

   If your vehicle has side-skirt body trim fitted, side skirt cutouts are situated near the jacking points to provide adequate clearance for jack operation.



8. The jacking points may be concealed by covers. Remove the jacking point covers, as necessary.



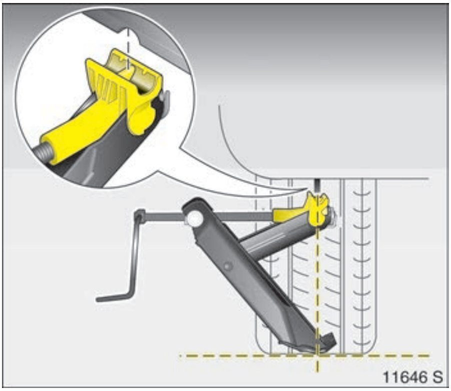
WARNING:

Failure to position the jack as described above could result in serious personal injury or vehicle damage caused by the vehicle slipping off the jack.

9. Position the jack in the underbody depression that is nearest the flat tyre.

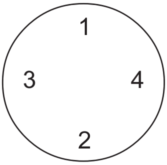
   Ensure that the centre of the jack claw is in line with the half circle cutout in the underbody and that the jack base is in line with the claw.

   Refer to Chapter 6, Emergencies, for jacking precautions.



FLAT TYRE cont.

10. Raise the vehicle by turning the crank handle, until the tyre is clear of the ground.
11. Remove the wheel bolts and place together in a dry spot, to avoid getting dirt in the threads.
12. Remove the wheel from the vehicle and change it over with the spare.
13. Install the wheel bolts and tighten by hand. Then, with the wheel wrench, lightly tighten in a crisscross sequence.
14. Lower the vehicle completely and remove the jack.
15. Fully tighten the wheel bolts with the wheel wrench in a crisscross sequence, as shown.



16. Install the wheel trim:

    Steel wheels: Full size wheel covers have a valve symbol on the rear of the cover to align with the valve.

    Line the hole for the valve with the valve and press on the wheel trim.

    Alloy wheels: Install the individual wheel stud caps and press on the centre cap. When replacing the centre cap, align the pin on the back of the cap with the corresponding hole in the wheel and push the centre cap firmly into place.
17. Place the jacking point cover back over the jacking point, as necessary.
18. Stow away wheel, tools and jack.
19. Have the flat tyre repaired as soon as possible.

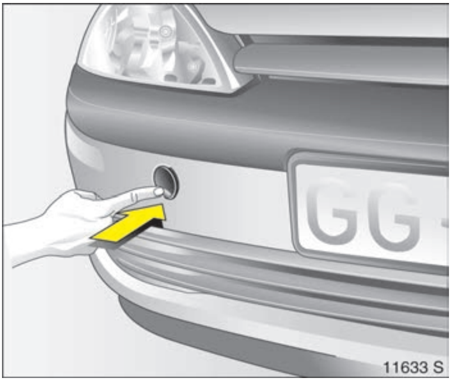
WARNING:

As soon as possible after changing a wheel, you should have the wheel bolts tightened with a torque wrench to 110 Newton metres and have the new wheel balanced on the vehicle.

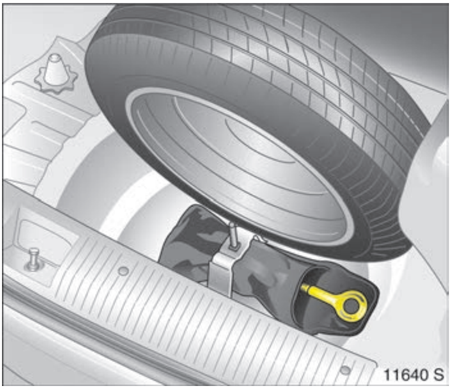
Wheel bolts should be tightened evenly to the correct torque in a crisscross pattern. Wheel bolts which have not been tightened properly could eventually allow the wheel to come off while the vehicle is moving.

TOWING YOUR VEHICLE

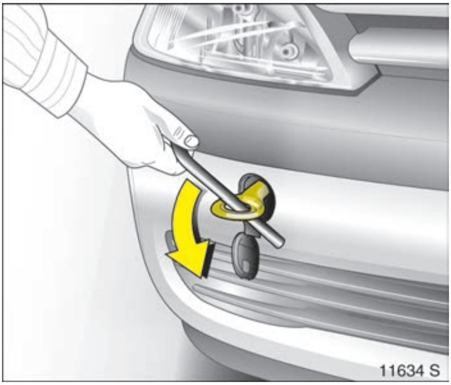
Proper lifting or towing equipment is necessary to prevent damage during any towing operations. Follow state and local laws. In an emergency, your vehicle may be towed on all four wheels in the following manner:



1. Remove the towing eye hole cover (located at the front, driver's side of the vehicle) by pressing the lower edge of the cover then pulling it outwards.
2. The towing eye is located with the jack and tools (Barina – beneath the spare wheel in the load area, Combo – behind the driver's seat).
3. Screw in the towing eye anticlockwise as far as it will go and use the wheel bolt wrench to tighten it until it is horizontal.
4. Attach a tow rope to the eye. Do not attach it to the bumpers, brackets or any other part of the vehicle.



5. Place the transmission in neutral (**N**) and release the park brake.
6. Switch the ignition to position **II** (on). This frees the steering lock and allows the correct operation of the windscreen wipers, horn and turn signals.
7. For safety and to prevent damage to the vehicle, avoid jerky movements and drive slowly during towing operations.
8. Remember that power assist for brakes and power steering is not available when the engine is off. Therefore, more effort is required to brake and steer.



9. To prevent the entry of exhaust fumes from the towing vehicle into the passenger compartment of your vehicle, close the windows and move the heating and ventilation controls to the recirculate position.
10. Vehicles fitted with automatic transmissions should only be towed facing forwards and must not be towed for more than 100 km or over 80 km/h.
11. If the transmission is defective or if the above speed or distance is to be exceeded, the front of the vehicle must be raised.
12. Only the driver should be in a towed vehicle.

TOWING YOUR VEHICLE cont.

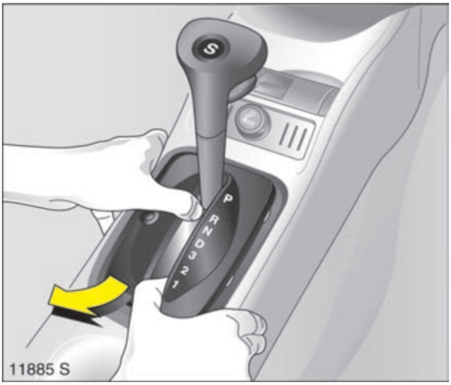
Models with automatic transmission

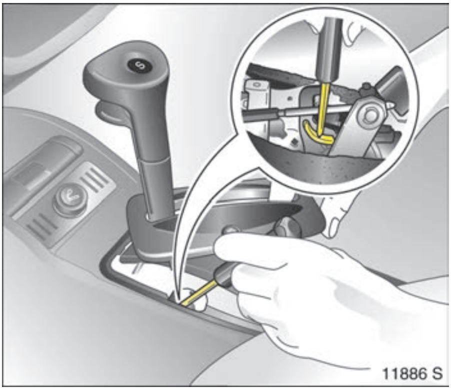
For safety reasons, the transmission has an electric **P** (park) lock so that the ignition must be switched on before the shift lever can be moved away from the **P** position.

If the vehicle battery is flat, the shift lever cannot be moved as required for towing. Therefore, to move the shift lever:

1. Apply the park brake.
2. Disengage the shift lever trim from the console and rotate it anticlockwise.
3. Push the catch forward and move the shift lever handle out of the **P** position, as illustrated.
4. Install the shift lever trim onto the centre console.
5. Install the cover onto the console.

Note: The shift lever will again lock if moved back to the **P** position.

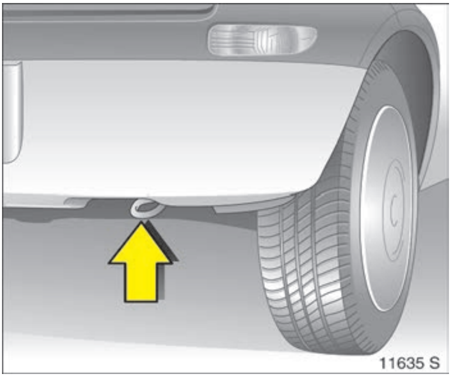




Towing another vehicle with your vehicle

The rear towing eye is located under the rear, right-hand side of the vehicle.

1. Attach a tow rope to the rear towing eye, never to the rear axle.
2. Drive off slowly and avoid jerky movements.



ENGINE OVERHEATING

WARNING:

Immediate action is required if the engine overheats. This can be indicated by the temperature gauge needle moving to the red zone, by steam escaping from under the bonnet, a loss of power or a loud knocking or pinging noise.

Continued driving EVEN FOR A SHORT TIME could cause a fire or vehicle damage.

Pull out of the traffic as soon as possible and stop the vehicle. Leave the engine idling and the park brake applied while you get out and check that the cooling fan is working.

WARNING:

Do not open the bonnet if you can see or hear steam or coolant escaping from the engine compartment. Scalding fluid and steam can be blown out under pressure which could cause serious burns. Wait until no steam or coolant can be seen or heard before opening the bonnet.

If the fan is working and the temperature gauge needle has not returned to its normal position within a few minutes stop the engine and remove the ignition key.

Look for leaks at the radiator hoses and connections, heater hoses and connections, radiator and water pump.

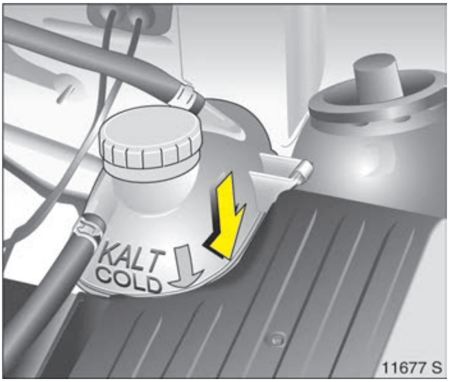
Take care when checking all these areas as they will probably still be hot.

If you find a major leak or other problems that may have caused the engine to overheat, do not run the engine until these problems have been corrected.

If you do not find anything wrong then you should check the engine coolant level in the surge tank.

The coolant level in the surge tank should be slightly above the KALT / COLD mark, indicated by the arrow symbol ⇩ visible on the surge tank, when the system is cold. The level rises with the engine operating temperature and drops again when the engine cools down.

If the level falls below the mark, the coolant should be replenished to a little over the mark.



WARNING:

Do not remove the cooling system cap if the engine and radiator are still hot.

ENGINE OVERHEATING cont.

If the level is low, remove the surge tank cap as follows:

Cover the surge tank cap with a thick cloth. Slowly turn the cap anticlockwise and remove.

Top up the surge tank with clean water to a little over the KALT / COLD level, indicated by the arrow symbol ⇩ visible on the surge tank, when the engine is idling.

Install the cap and leave the engine idling for a few minutes.

If, after taking one or more of the above actions the temperature gauge no longer signals an overheat condition, resume driving at a reduced speed. Return to normal driving after 10 minutes if the temperature gauge does not again show an overheat condition.

If overheating occurs again you should have the vehicle attended to as soon as possible by a qualified mechanic.

Note: With this type of sealed, pressurised cooling system, there should be very little loss of coolant. If the surge tank is low, a leak is indicated. Consult your Holden Retailer as soon as possible to fix the leak.

The engine may temporarily operate at high temperatures during more demanding operating conditions, especially on very hot days. These conditions include:

- climbing a long hill
- stopping immediately after high speed driving
- idling for long periods in traffic
- towing a heavily laden trailer or caravan.

Avoid operating your vehicle for prolonged periods in any of the above circumstances if the temperature gauge indicates a high engine coolant temperature.

Refer to Chapter 7 for maintenance instructions to help protect your cooling system from overheating.

FLAT BATTERY

WARNING:

Do not attempt to 'push start' this vehicle, as it is fitted with a catalytic converter and if uncombusted fuel reaches the catalytic converter and ignites, the converter could overheat or be destroyed by backfire.

If your vehicle will not start due to a flat battery, it can often be started by using energy from a battery in another vehicle – a procedure called 'jump starting'.

Please read the following procedure in full before attempting to jump start your vehicle.

If after reading the following procedure you are still unsure about jump starting we strongly recommend for your safety and that of your vehicle that you see a competent mechanic. Consult your Holden Retailer if the battery repeatedly discharges.

Jump starting

WARNING:

The battery of your vehicle has a negative earth and a 12 volt rating. The battery in the other vehicle must be the same voltage and also have a negative earth. The battery capacity of the charged battery must not be substantially lower than that of the discharged battery.

Check the specifications of the other vehicle battery to see if it complies. Serious injury or damage may result if the wrong type of battery is used.

Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, to lessen the chance of personal injury when working near a battery:

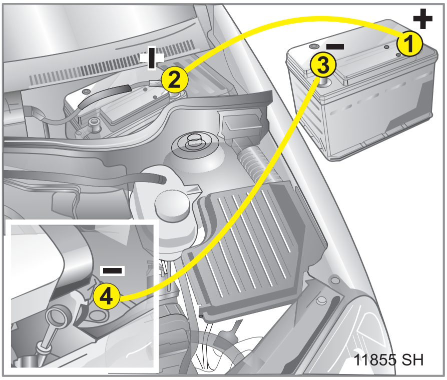
- **Do not expose the battery to open flames or sparks. Battery action generates hydrogen gas which is flammable and explosive.**
- **Do not smoke near a battery.**
- **Wear eye protection such as industrial safety glasses.**
- **Do not allow battery acid to contact eyes or skin. Flush any contacted area with water immediately. In case of eye contact you should get medical help. Battery acid also damages paint and fabrics. To minimise damage, wash off immediately.**
- **Be sure any batteries that have filler caps are properly filled with fluid.**
- **Remove rings, metal watch bands and other metal jewellery before working around the battery.**
- **Carefully follow each step in the jump starting process.**
- **Never use a quick charger to start your engine.**
- **Do not lean over the battery during jump starting.**
- **Always use spike protection jumper leads to avoid damage to electrical components.**

FLAT BATTERY cont.

Position the two vehicles so that they are not touching and apply the park brakes. Place automatic transmissions in **Park** and manual transmissions in **Neutral**.

Turn off the ignition and all lights and accessories in both vehicles (except for the hazard warning flashers and any lights needed for the work area).

Connect the leads in the order shown in the picture:

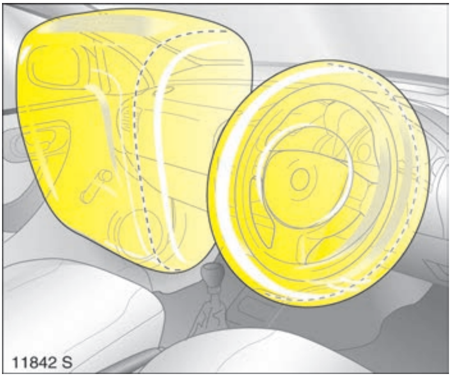


1. Attach one end of the first jumper cable to the positive terminal of the charged battery (identified by **+** or **P** on the battery case, post or clamp).
2. Connect the other end of the same cable to the positive terminal of the flat battery.
3. Attach one end of the second jumper cable to the negative terminal of the charged battery (identified by **–** or **N** on the battery case, post or clamp).
4. Connect the other end to a solid stationary, metallic point on the engine that has the flat battery.

Note:

- Do not connect directly to the negative post of the battery. The connection should be as far away from the flat battery as possible.
- When making all connections take care that the clamps from one cable do not inadvertently touch the clamps on the other cable. Also, ensure that the jumper cables are not on or near pulleys, fans or other points that will move when the engine is started.
- Start the engine in the vehicle with the charged battery and run the engine at a moderate speed. Then start the engine in the vehicle with the flat battery.
- Attempts to start the engine with the flat battery should be made at intervals of one minute and should last no longer than 15 seconds.
- After starting, allow both engines to idle for approximately 3 minutes with the leads still connected.
- Leave the engine running as you remove the jumper cables by reversing the above sequence exactly. While removing each clamp, take care that it does not touch any other metal while the other end remains attached.

AIRBAGS



Airbags are fitted for the driver and front passenger, identified by the word **AIRBAG** on the steering wheel and above the glovebox.

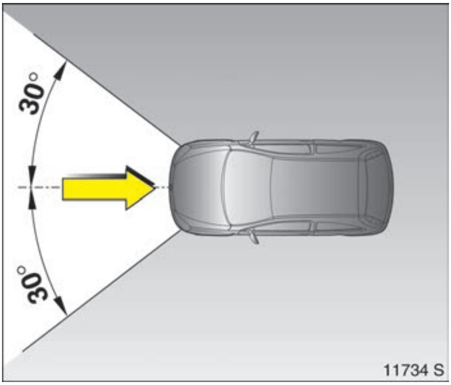
The airbags operate as a pair – they are triggered simultaneously.

If your vehicle is involved in a severe front end collision, the airbags will inflate, assisting the seat belts to restrain forward body movement.

An operating noise may be heard and a small amount of smoke-like gas will be released. The gas is harmless and does not indicate malfunction or fire.

The airbags will then deflate – the whole process only taking a moment.

The airbags assist, but do not replace, the seat belts. The airbags are not designed to inflate if the vehicle is hit from the rear or side or the vehicle overturns. Seat belts (by law) must be worn by all occupants whenever the vehicle is moving.



Airbags inflate with great force. If you are too close to an inflating airbag it could seriously injure you. Seat belts help keep you in position for airbag inflation in a crash.

The airbags inflate rapidly. It is therefore important that seats are correctly adjusted.

Adjust the driver's seat to suit the driver's height so that the driver is sitting upright with slightly bent arms when holding the upper spokes area of the steering wheel. The passenger seat should be as far back as possible, with the back rest upright.

The 💺 light on the instrument panel will illuminate for a few seconds when the ignition is switched on. This indicates that the airbags are operational.

If the light does not illuminate when the ignition is switched to on or if it comes on when driving, contact your Holden Retailer as the system may not function correctly, especially in an accident.

Airbags will inflate if the vehicle is struck severely within the non-shaded section. Airbags will not inflate if the vehicle is struck from the side, rear, or in some rollovers.

Always wear a seat belt.

AIRBAGS cont.

After use the whole airbag system will have to be replaced. It is recommended that the work be done by your Holden Retailer.

The system should also be inspected by a Holden Retailer if the steering wheel or dashboard area is scratched, cracked or damaged. Remember that the horn pad must not be covered with adhesive or any other material, as this may hinder airbag operation.

As a passenger-side airbag is fitted, the dashboard area must be kept clear, with nothing around this area or hanging from the sun visor.

The electronics controlling the airbag system and belt pretensioners are located in the centre console. To prevent malfunctions, do not place magnetic objects in the immediate vicinity of the console.

Extensive design and testing has gone into the airbag system. It should however, be treated with respect. Any careless or unskilled interference with the system could lead to its failure or to accidental inflation.

Any work to the electrical system, steering column, dashboard area, steering wheel or airbag system should only be carried out by an authorised Holden Retailer.

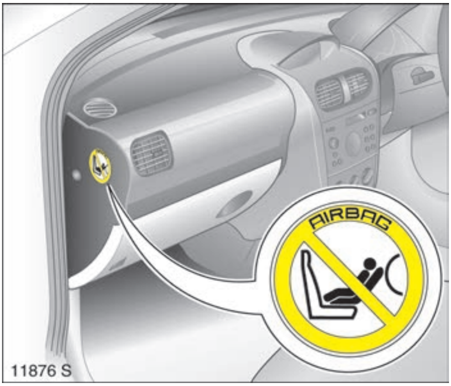
BULL BAR NOTE: Fitting a bull bar or making other modifications to the front of the vehicle, may change the impact speed which would normally cause the airbag to inflate, reducing its effectiveness. Bull bars should not be fitted to vehicles operating in suburban areas, as they increase the risk of injury to a pedestrian in the event of a collision.

Bull bars are only recommended for country / outback areas, where additional protection from straying animals is required. Please remember that defensive driving and limiting driving speed to the road conditions is always the best approach, particularly where road side signs indicate wildlife is abundant.

Child restraints and passenger airbag

WARNING – EXTREME HAZARD:

Do not use a rearward facing child restraint on a seat protected by an airbag in front of it. The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.



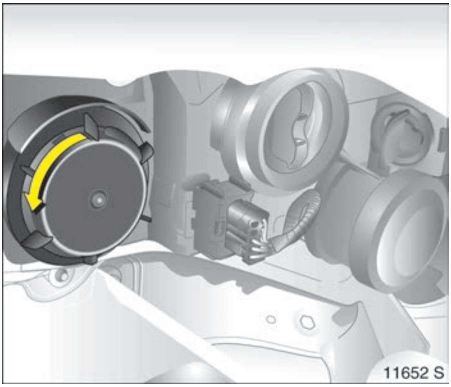
BULB REPLACEMENT

WARNING

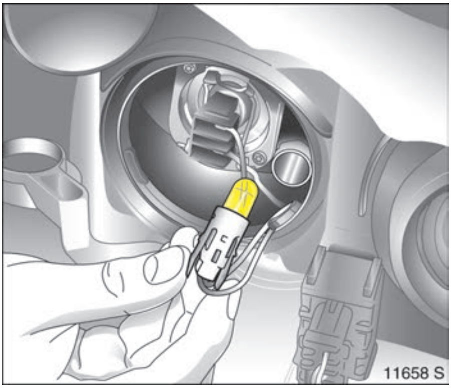
- **Always turn off the related switch.**
- **Do not touch new bulbs or reflectors with bare hands. Greasy fingers cause stains which evaporate, eventually resulting in a dull reflector. Grease spots on halogen bulbs will, within a short time, lead to bulb failure. Inadvertently stained bulbs may be cleaned with methylated spirits.**
- **It is important to fit only bulbs of the specified wattage.**
- **Detailed procedures for headlight aiming are provided in the relevant service manual for your vehicle. However, because headlight aiming is a safety item, it is recommended that you have it carried out by your Holden Retailer.**
- **On vehicles fitted with headlight range adjustment, any change to the adjustment must be carried out with the switch in position 0 (off).**

Front parking lights

1. Open the bonnet and engage the support rod.
2. Rotate the headlight cap anticlockwise and remove it from the headlight housing.



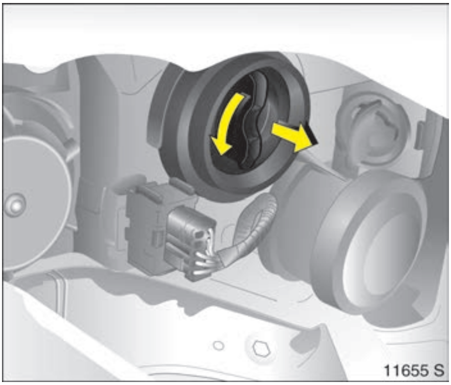
3. Press the lugs on the bulb holder together and remove the holder from the headlight reflector.
4. Remove the bulb from the holder.
5. Insert the new bulb.
6. Insert the holder in the reflector and install the cap into the headlight housing.



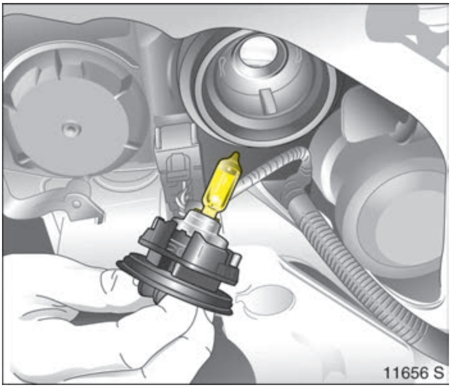
BULB REPLACEMENT cont.

Headlights–low beam

1. Open the bonnet and engage the support rod.
2. Rotate the bulb holder anticlockwise and remove it from the reflector.



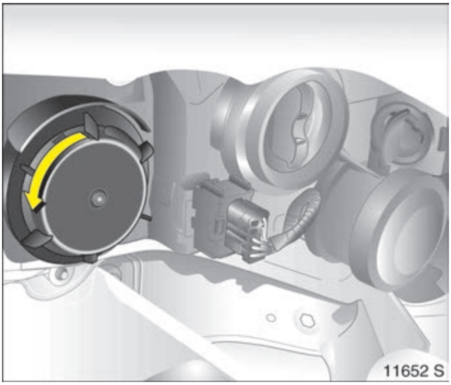
3. Detach the bulb from the bulb holder and install the new bulb without touching the glass.
4. Install the holder into the reflector ensuring that the two lugs on the holder engage in the recesses of the reflector.
5. Rotate the bulb holder clockwise as far as it will go.



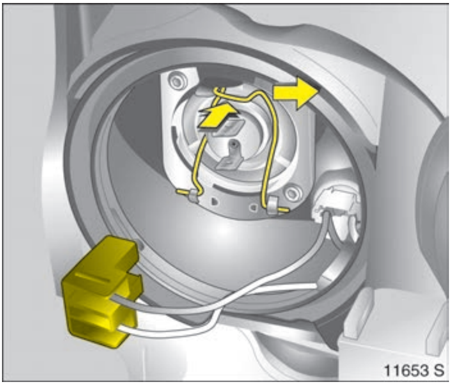
BULB REPLACEMENT cont.

Headlights–high beam

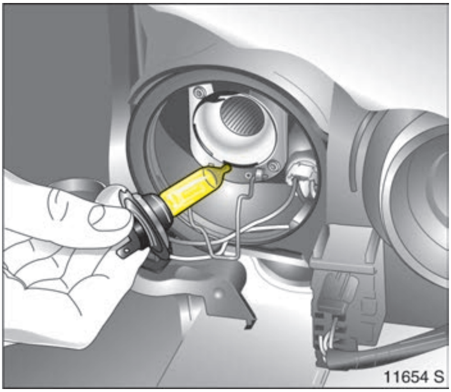
1. Open the bonnet and engage the support rod.
2. Rotate the headlight cap anticlockwise and remove it from the headlight housing.



3. Remove the bulb connector from the bulb.
4. Disengage the spring-wire clip from its retaining lugs by pressing the top loop as illustrated and moving it sideways. The spring-wire clip will now swivel downwards.
5. Remove the bulb from reflector housing.



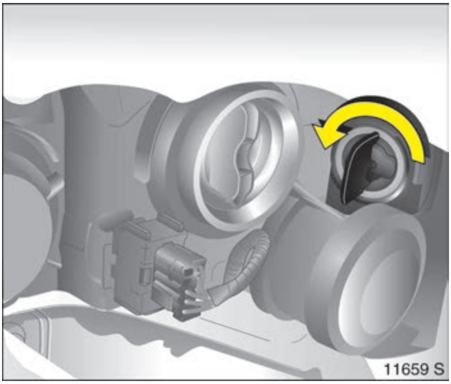
6. Install the new bulb (without touching the glass). Ensure the three bulb-locating lugs are correctly positioned in the reflector recesses.
7. Engage the spring-wire clip in the reflector retaining lugs.
8. Install the cap into the headlight housing and rotate it clockwise.



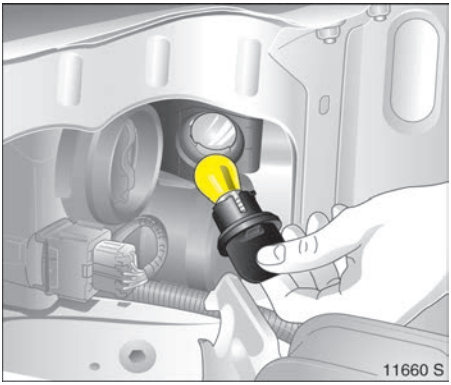
BULB REPLACEMENT cont.

Front turn signal lights

1. Open the bonnet and engage the support rod.
2. Rotate the bulb holder anticlockwise and disengage it.



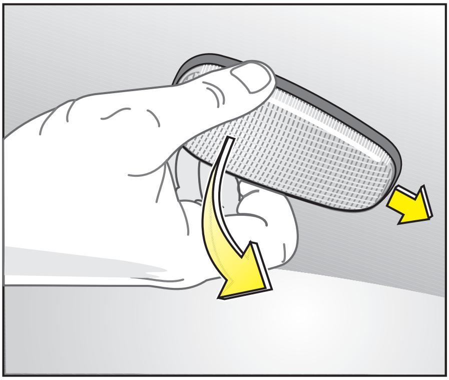
3. Press the bulb into the holder slightly, turn it anticlockwise and remove it.
4. Insert the new bulb and engage the older in the reflector by turning it.



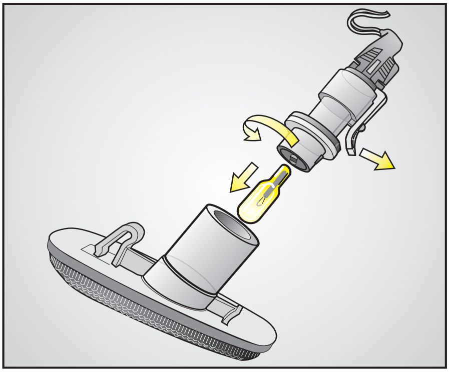
BULB REPLACEMENT cont.

Side flasher lights

1. Grasping the rearward end of the lens, push forwards and manoeuvre the lens away from the body of the vehicle.

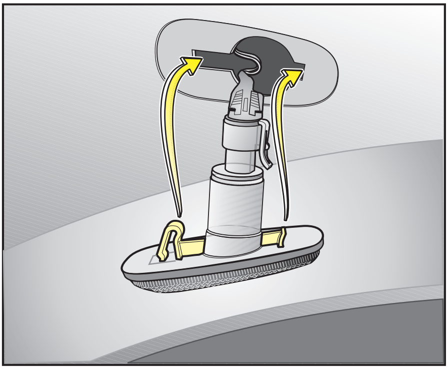


2. Rotate the bulb holder anticlockwise and separate it from the lens assembly.
3. Pull the bulb out of the bulb holder.



4. Insert the new bulb into the bulb holder.
5. Install the bulb holder into the lens housing.

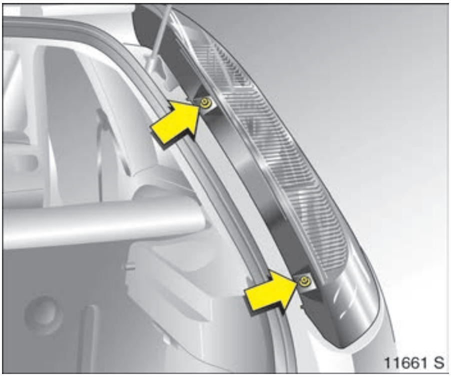
   Note: The bulb holder fits into the lens housing one way. Turn the bulb holder until it fits into place and can be tightened.
6. Locate the rear of the housing into the vehicle body.
7. Push the front of the lens inwards and engage the clip.
8. Check the light operation.



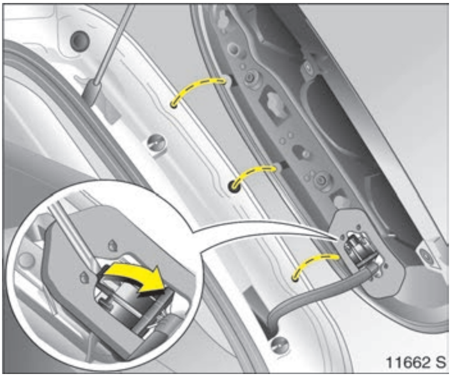
BULB REPLACEMENT cont.

Tail, brake, rear turn signal, reverse lamps (Barina)

1. Remove the two screws from the rear lens assembly using a screwdriver.



2. Pull the lens assembly rearward to disengage it from its locking elements.
3. Disengage the cable connector from the lens assembly using a screwdriver and remove it from the assembly.



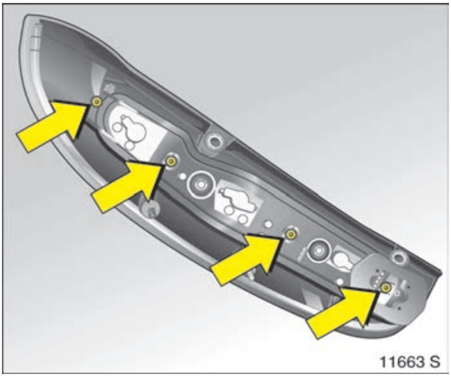
4. Remove the four screws from the bulb mounting using a screwdriver, and remove the bulb mounting from the lens assembly.

   Bulb sequence, from top to bottom:

   Turn signal light

   Brake / tail light

   Reverse light
5. Remove the bulb from the holder.
6. Insert the new bulb, engage the bulb holder into the lens and install the screws.
7. Engage the cable connector with the lens assembly.

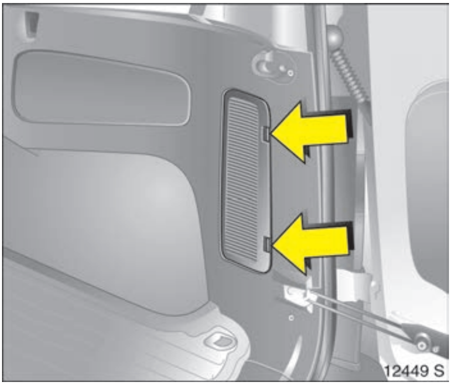


8. Align and insert the fixing pins of the lens assembly into the body holes and secure the assembly with the two screws.

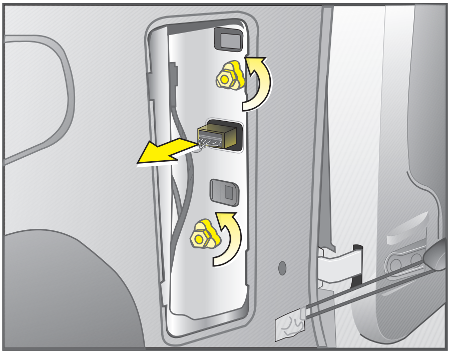
BULB REPLACEMENT cont.

Tail, brake, rear turn signal, reverse and rear fog lights (Combo)

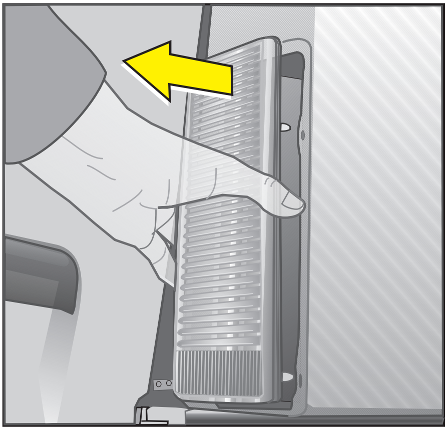
1. Open the rear door next to the rear light assembly to be accessed.
2. Remove the rear light assembly dress cover by pushing back the two tabs, as illustrated.



3. Remove the two large, white retaining screws and disengage the harness connector.



4. Partially close the rear door and lift out the rear light assembly.

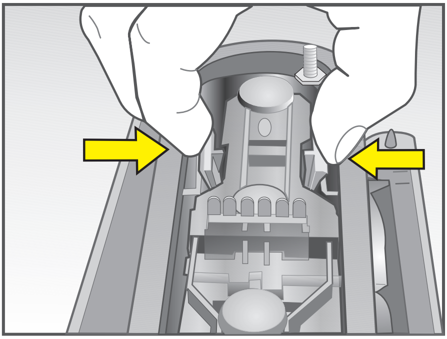


BULB REPLACEMENT cont.

5. Press the two bulb holder retaining tabs together and remove the bulb holder.

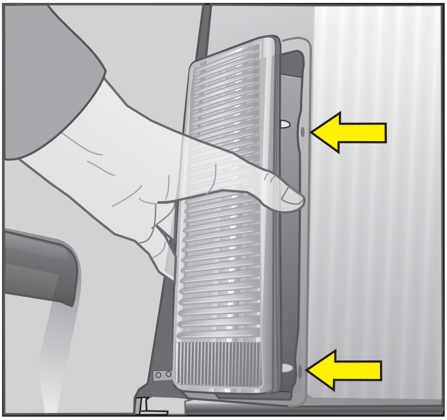
   Bulb sequence, from top to bottom:

   - Brake / tail light
   - Turn signal light
   - Reverse light
   - Fog light

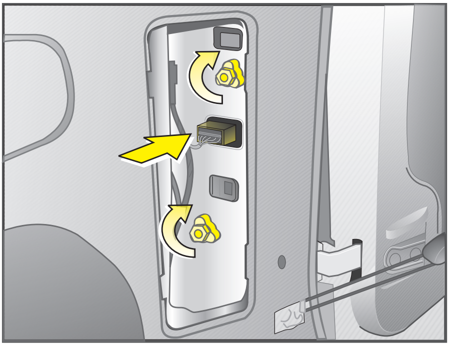


6. Replace the faulty bulb and install the bulb holder into the lens assembly.

7. Align the rear light assembly locating lugs with the body holes and install the assembly.



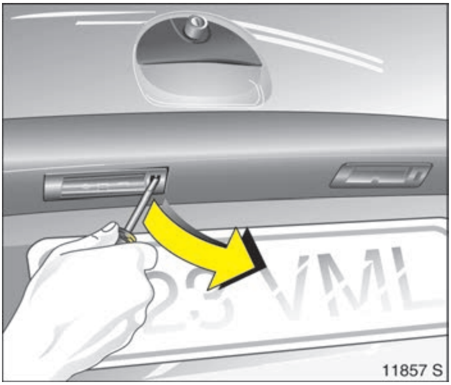
8. Install the large white retaining screws then the harness connector. Ensure that all lights operate correctly.
9. Fit the dress cover.



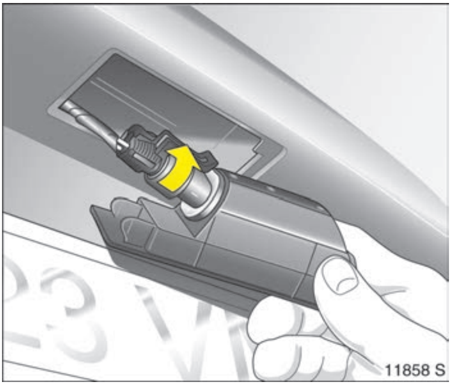
BULB REPLACEMENT cont.

Number plate light (Barina)

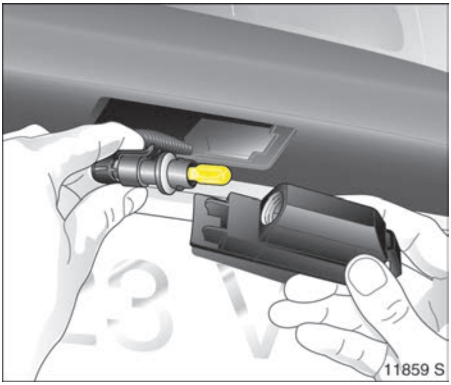
1. Insert a screwdriver vertically into the side of the lens on the right-hand side, press towards the right and disengage the spring.
2. Remove the number plate light downwards and clear of the rear bumper.



3. Rotate the bulb holder anticlockwise and remove it from the lens.



4. Remove the bulb from the holder.
5. Insert the new bulb.
6. Insert the holder into the lens and rotate it clockwise to lock it in place.
7. Insert the lens into the rear bumper.

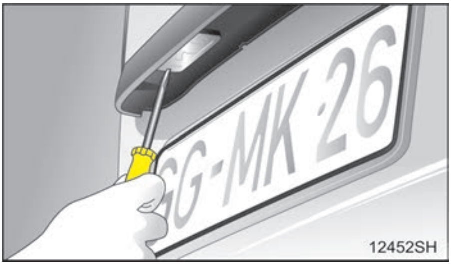


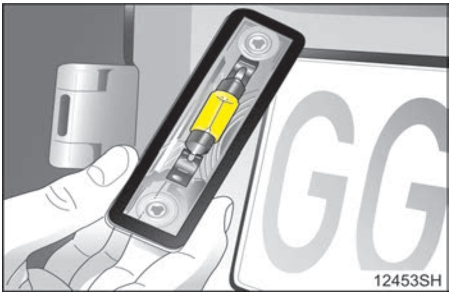
BULB REPLACEMENT cont.

Number plate light (Combo)

1. Use a screwdriver to remove the two number plate light assembly retaining screws.
2. Remove the assembly.

   Note: There is no wiring harness to disconnect. This is due to spring contacts that connect when the light assembly is installed.
3. Replace the faulty bulb.
4. Align and install the assembly into the body and install the two retaining screws.



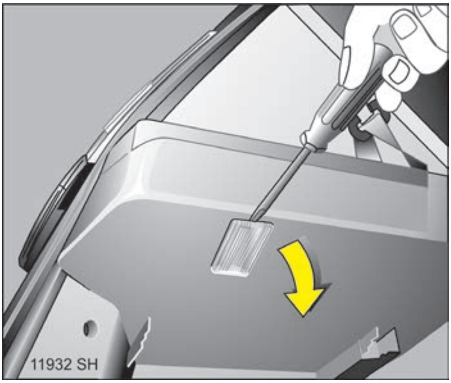


Barina luggage compartment light and rear reading light

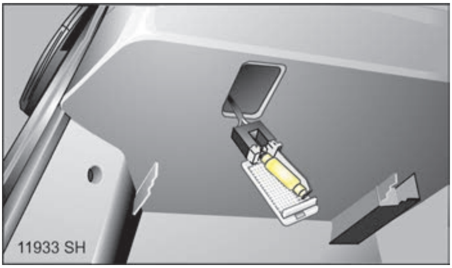
Before removal, close the doors or make sure that the contact switch is kept pressed so that the light is not live.

1. Carefully prise the light out of the trim using a screwdriver.

   For a rear interior light with a reading light, lever the lens out of the housing.



2. Press the bulb slightly towards the spring-clip and remove it.
3. Insert the new bulb.

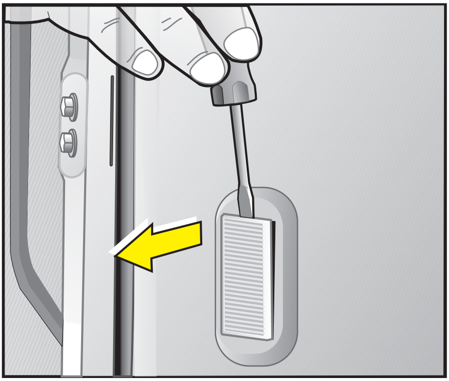


BULB REPLACEMENT cont.

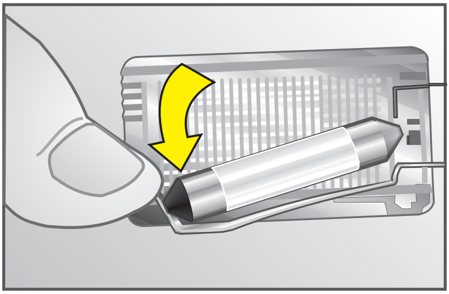
Combo luggage compartment lights

Before removal, close the rear doors or make sure that the contact switch is kept pressed so that the lights are not live.

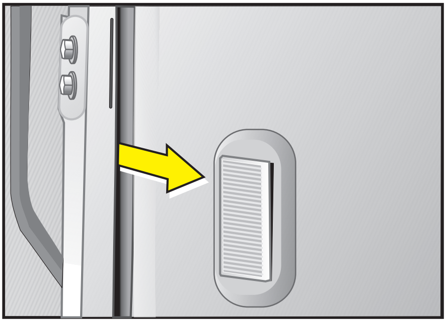
1. Insert a flat-blade screwdriver into the slot at the top of the lens and carefully prise the rear compartment light out of the trim.
2. Disconnect the wiring harness connector.



3. Remove the bulb by pressing against the top of the long contact, as illustrated.
4. Install a new bulb and then install the wiring harness connector.



5. Align and install the light ensuring that it is fully housed into the body.

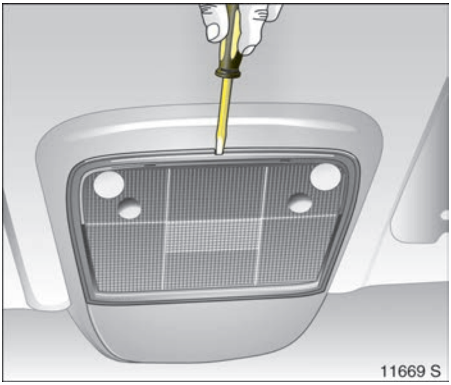


BULB REPLACEMENT cont.

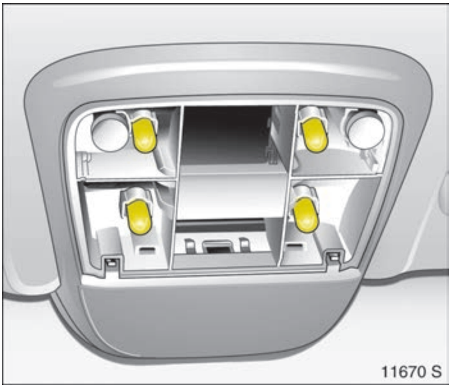
Front courtesy light and front reading lights (if fitted)

Before removal, close the doors or make sure that the contact switch is kept pressed so that the light is not live.

1. Using a screwdriver, lever the lens out of the housing.



2. Remove the bulb from the socket.
3. Insert the new bulb.
4. Mount the lens and engage it in position.

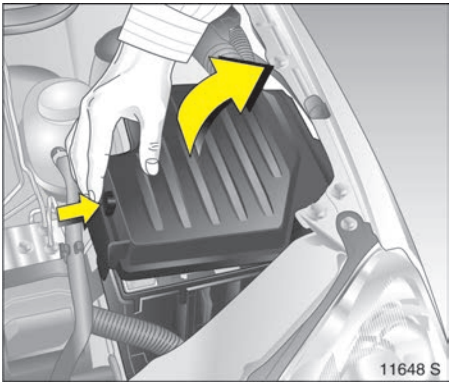


Bulb replacement procedures for the following lights should be carried out by your Holden Retailer:

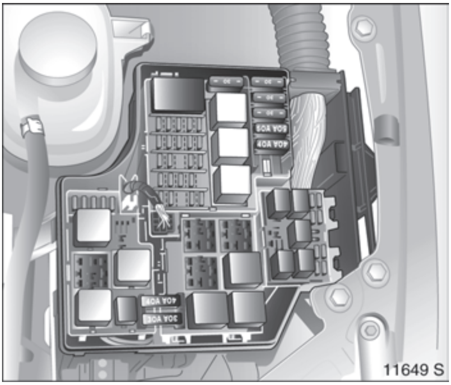
- Centre high mounted stop light.
- Fog lights.
- Instrument lights.
- Information display lights.

FUSES

The fuses are located between the passenger side headlight and the coolant surge tank. To open the fuse compartment, press the retaining clip towards the compartment lid and lift the lid upwards.

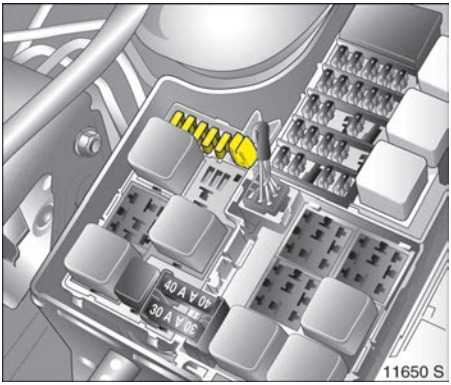


Remove the lid completely to access the fuses.

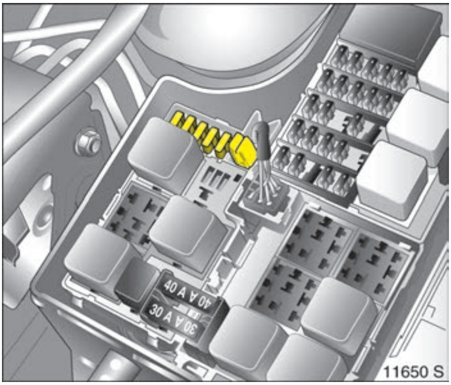


It is recommended that a complete spare set of fuses are carried. There is provision in the fuse box for the storing of spare fuses.

Note: Some circuits may be protected by more than one fuse.



FUSES cont.



To help in replacing fuses, there is a special fuse gripping tool located beside the spare fuses in the fuse box.

Before replacing a fuse, turn off the respective switch and remove the ignition key.

Slot the fuse gripping tool onto the fuse and withdraw.

A defective fuse can be recognised by its melted wire. A new fuse should only be installed after the cause of the trouble has been located and eliminated.

Only fuses of the specified rating should be installed. The rating is given on all fuses.

COLOUR	RATING
Light brown	5 A
Dark brown	7.5 A
Red	10 A
Blue	15 A
Yellow	20 A
Green	30 A
Pink (Maxi-fuse)	30 A
Orange	40 A
Red (Maxi-fuse)	50 A
Yellow (Maxi-fuse)	60 A
Black (Maxi-fuse)	80 A

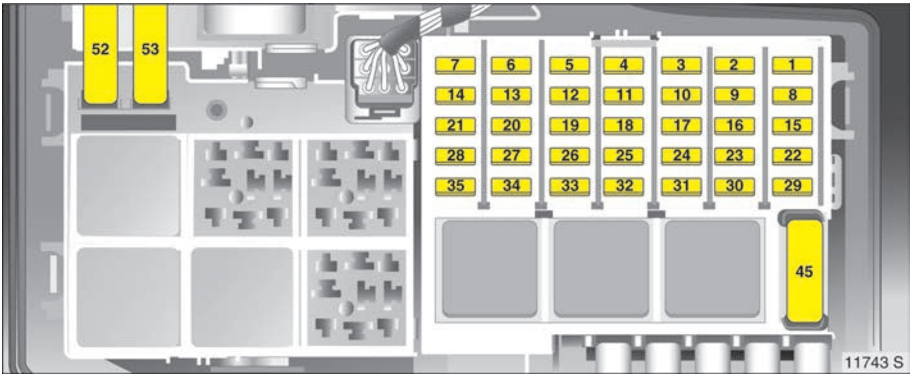
WARNING:

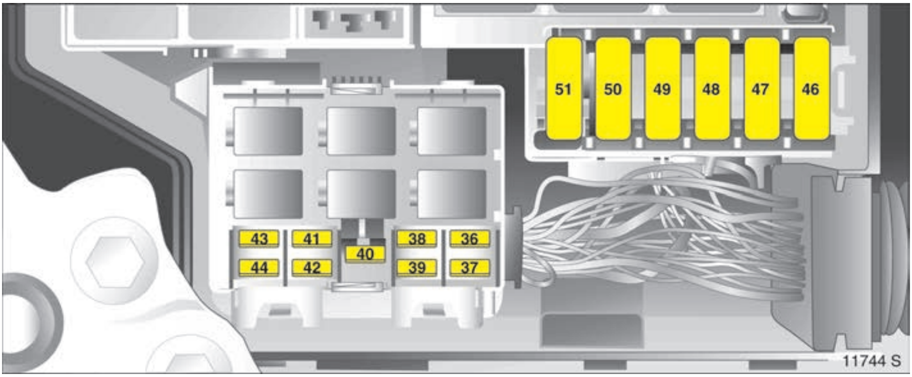
When replacing a fuse be sure to use a fuse of the specified amperage. Never install a wire or similar device to replace a fuse, as it could damage electrical components and may cause a fire hazard to your vehicle.

FUSES cont.

1	Central control unit	7.5 A
2	Engine control unit	7.5 A
3	Instruments, horn, information display, hazard warning flashers	7.5 A
4	Number plate light	5 A
5	–	
6	Automatic transmission (if fitted)	10 A
7	–	
8	Starter	10 A
9	Fuel injection system, fuel pump	20 A
10	Horn	10 A
11	Central control unit	15 A
12	Information display, radio	15 A
13	–	
14	–	
15	Windscreen washer	15 A
16	Courtesy lamp	5 A
17	Central control unit	20 A
18	–	
19	–	
20	–	
21	–	
22	Central control unit	20 A
23	Windscreen wipers	20 A
24	Radio, information display courtesy lamp, instruments, EPS, immobiliser	5 A
25	Brake lights	10 A
26	Cigarette lighter	10 A
27	–	
28	–	
29	Windscreen washer system	20 A
30	Engine control unit	15 A
31	Air conditioning system (if fitted)	15 A
32	Heated rear window (if fitted)	10 A
33	–	
34	–	
35	Radio	5 A
36	Dipped beam (left)	10 A
37	Dipped beam (right)	10 A
38	Park and tail lights (left)	5 A
39	Park and tail lights (right)	5 A
40	–	
41	–	
42	Fog lights	10 A
43	Headlights – high beam (left)	10 A
44	Headlights – high beam (right)	10 A
45	Air conditioning (if fitted)	30 A
46	Engine control unit	20 A
47	Heated rear window (if fitted)	30 A
48	Starter	30 A
49	EPS	50 A
50	–	
51	–	
52	Cooling fan (without air conditioning)	40 A
53	Air conditioning cooling fan (if fitted)	30 A

FUSES cont.


11743 S


11744 S

CHAPTER 7

Weekly checks

Page

7-2 Miscellaneous checks
7-3 Engine oil level
7-4 Engine coolant level
7-5 Brake fluid level
7-5 Auto transmission fluid level
7-6 Washer fluid level
7-6 Battery
7-7 Tyres

MISCELLANEOUS CHECKS

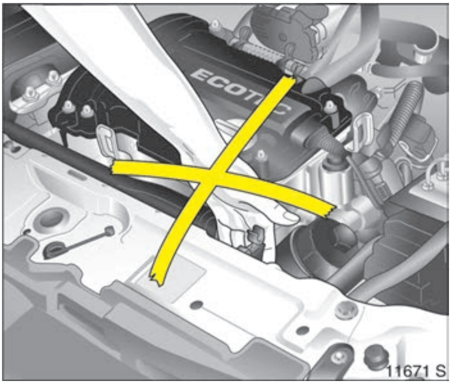
As well as taking your vehicle to be serviced there are a few simple weekly checks that the owner / operator is recommended to make. Refer to Chapter 12. These are outlined on the following pages.

The following checks should also be regularly performed to ensure proper safety and dependability of your vehicle.

WARNING:

If the engine temperature is high, the cooling fan may remain on for several minutes after turning off the ignition.

The engine cooling fan can start working unexpectedly, even when the engine is not running and the ignition is off.



WARNING:

Electronic ignition systems have a high ignition power. Do not touch the ignition system; this could be highly dangerous.

CHECK THE FOLLOWING:

- All exterior lights are working and that their appropriate interior indicators light up when in operation.
- Mirrors and glass are clean and not scratched.
- Automatic transmission (if fitted) gear lever indicator correctly lines up next to the gear selected.
- Correct aim of water on the windscreen or tailgate and condition of the wipers.
- Demister operates.
- Condition and operation of all seat belts (give a sharp tug to ensure that the ‘lock’ will function if necessary) and check that buckles are clean and operating correctly. Remember that seat belts must never be worn twisted.

ENGINE OIL LEVEL

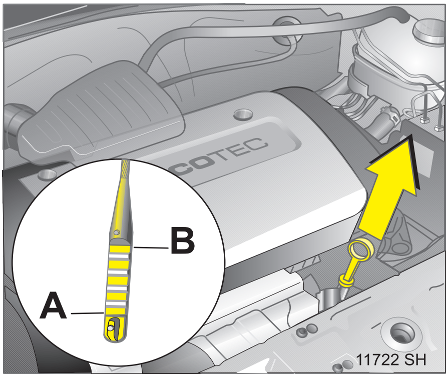
It is normal for every engine to consume some oil. For this reason the engine oil level should be checked every 500 km or before starting a long trip.

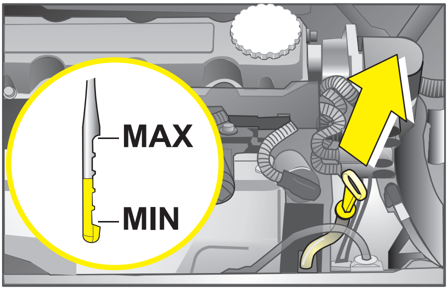
Check the oil level with the vehicle parked on level ground and with the engine at normal operating temperature, but switched off. Wait at least 5 minutes before checking the level to allow the oil to settle. If the engine is cold, the oil may take a lot longer to drain back.

To check the level, remove the oil dipstick, wipe it clean and re-insert it as far as it will go. Pause for a second then withdraw the dipstick and look at the oil level on it.

The oil level should be maintained between the low and full levels (Barina: **A** and **B**, Combo: **MIN** and **MAX**).

Refer to Chapter 8.





Add engine oil

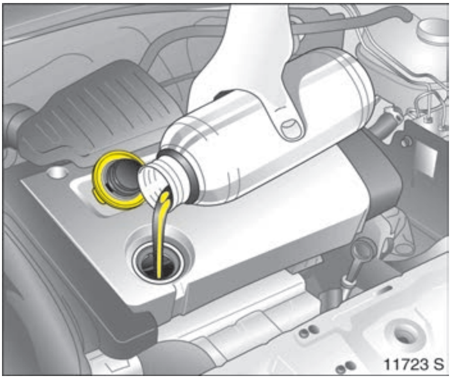
To add oil, undo the cap on top of the engine. Add enough oil to bring the oil level to the full level on the dipstick. As a guide, the distance between the marks represents 1 litre of oil.

Wait a few minutes for the oil to settle then check the oil level again. When the level is correct, install the oil cap and the dipstick and clean up any spilt oil.

Note: Do not add oil to above the maximum mark on the dipstick.

Oil consumption should not be judged until the vehicle has run several thousand kilometres. It may take this long for oil consumption to stabilise.

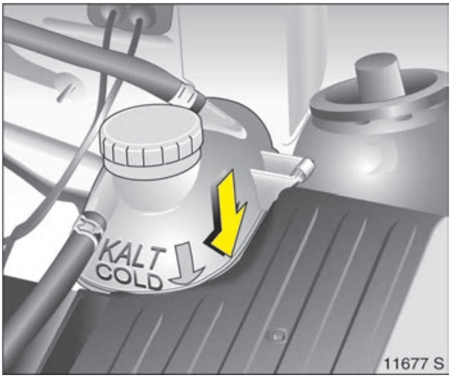
Oils not recommended



Non-detergent and other low quality oils are specifically not recommended. The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended.

Their use will increase costs, may be detrimental to the operation of your vehicle and may void your New Vehicle Warranty, to the extent that Holden considers the non-recommended fluid to have affected the specifications or quality of your Holden vehicle.

ENGINE COOLANT LEVEL



The engine coolant reservoir is located in the front, passenger side of the engine bay (yellow cap).

The level of coolant should be checked at least weekly. This is simply a matter of looking at the level in the plastic container when the engine is cold.

The level should be slightly above the **KALT** / **COLD** ⇩ mark when the engine is cold. The level rises when the engine is running and drops down again when the engine cools down. If the level falls below the **KALT** / **COLD** ⇩ mark, the coolant should be topped up to a little over the mark.

The coolant for your vehicle is specified in Chapter 8, Specifications.

If topping up, first mix a solution of 50% coolant and 50% water. Failure to use the coolant meeting the Holden specification or maintaining the specified concentration may result in voiding your New Vehicle Warranty.

In an emergency, plain water may be used temporarily in the cooling system until the correct coolant is obtained as soon as possible from the nearest Holden Retailer.

Remember to install the coolant cap and tighten as far as it will go.

Specified coolant contains special corrosion inhibitors for the best corrosion protection of your engine and cooling system. This coolant also gives your cooling system greater hot weather protection by increasing the boiling point and in addition provides protection in cold weather conditions down to –30°C, provided the correct concentration is maintained.

If you regularly have to top up the cooling system, you should consult your Holden Retailer.

WARNING:

Corrosion inhibitors and antifreeze fluids are poisonous. Use extreme care when handling. If swallowed seek medical attention. Do not remove the cooling system cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

Refer to Chapter 6 if the engine overheats.

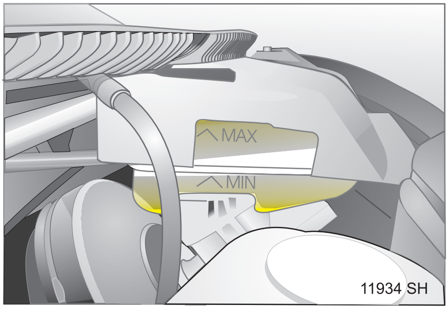
BRAKE AND AUTO TRANSMISSION FLUID LEVELS

Brake fluid level

The brake fluid in the master cylinder should be checked weekly. The master cylinder is located in the engine bay, on the driver's side of the vehicle.

The fluid level, visible in the see-through master cylinder when standing at the driver's side of the vehicle, should be maintained between the **MIN** and **MAX** level markings shown on the side of the master cylinder.

If the fluid is between these levels do not remove the master cylinder cap. Remember that brake fluid exposed to the atmosphere will quickly absorb moisture, which in turn lowers the boiling point of the fluid as well as increasing risk of corrosion of brake components.



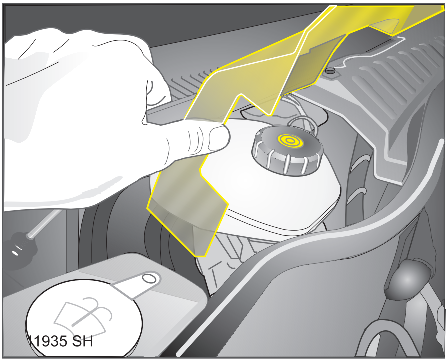
WARNING:

Brake fluid is poisonous and corrosive. It will damage the paint finish of your vehicle if spilt. If spillage occurs on vehicle body, remove by pouring water over affected area as soon as possible.

If fluid needs to be added, firstly, raise the plastic master cylinder cover (the engine compartment weather seal will have to be pulled towards the front of the vehicle to allow the cover to be raised). Secondly, clean around the filler cap. Finally, top up the master cylinder reservoir with heavy duty brake fluid which meets Holden specifications. Refer to Chapter 8.

Remember to secure the cap and clean up any spilt fluid.

Note: Use only new brake fluid. Use of old, used or inferior brake fluid may endanger the functioning of the brake system.



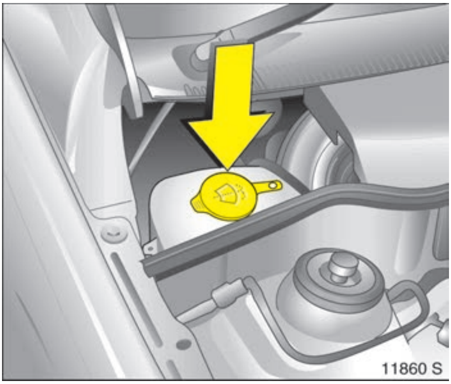
If the master cylinder requires constant topping up, it could indicate that a malfunction exists and you should immediately consult your Holden Retailer.

Automatic transmission (if fitted) fluid level

The fluid level for automatic transmission will be checked for you when your vehicle is taken to your Holden Retailer for servicing, refer to Chapter 12. The automatic transmission fluid level does not require checking by the driver in between these scheduled services.

WASHER FLUID LEVEL AND BATTERY

Washer fluid level



As the washer fluid is constantly used the level should be checked weekly and topped up as required.

The washer container is for both the windscreen and tailgate washers (if fitted).

The washer container is located under the bonnet on the driver's side, beside the brake master cylinder.

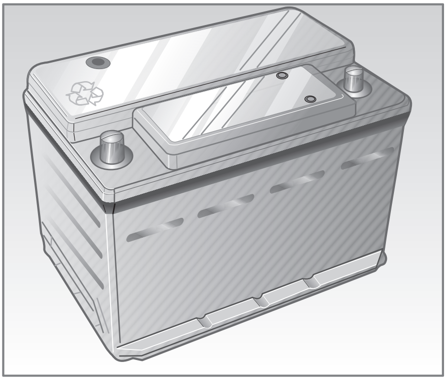
To fill, open the flip top cap.

For a crystal clear windscreen, add a small amount of windscreen cleaner. Refer to Chapter 11.

Do not use ordinary soap or detergent. These not only froth up but will also damage the wiper rubbers and may also block the washer jets.

Remember to secure the cap after filling.

Battery



Your vehicle is fitted with a maintenance free battery, which means that the fluid level does not need to be checked.

When replacing the battery, you should always replace it with another maintenance free battery of the correct specifications. Refer to Chapter 8.

Note: You should never disconnect the battery when the engine is running.

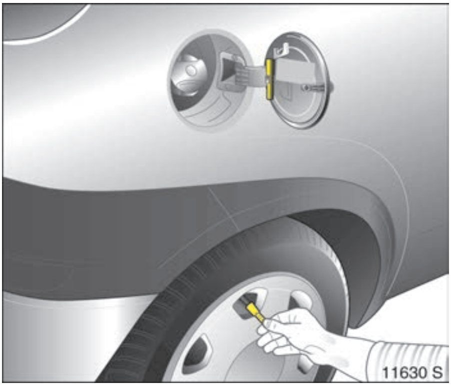
If removing the battery for recharging, first disconnect the negative cable, then the positive cable.

Never charge the battery while still connected to the vehicle.

When reconnecting, first connect the positive cable to the positive post of the battery, then the negative cable to the negative post of the battery.

TYRES

Tyre air pressure



Checking the air pressure of your tyres (including the spare) ensures your safety, as well as reducing fuel consumption and increasing the life of your tyres.

To ensure your vehicle maintains optimum handling, check the pressures weekly. For constant long distance or rough road travelling, daily checking is recommended.

For the correct pressure for your tyres, refer to the tyre placard on the inside of the fuel filler flap.

Always use a tyre pressure gauge to check the tyres. Simply looking at the tyres is not sufficient.

Tyre inflation pressure increases when the tyres have been driven for more than 2 km. The pressure should be checked when the tyres are cold (stationary for more than 3 hours). If they must be checked immediately after driving, increase the pressure shown on the placard by 10%.

If the vehicle is heavily loaded, the recommended pressure for the tyres is increased. Refer to the tyre placard on your vehicle. As the tyres are operating under greater load, the weekly air pressure becomes even more important.

The inflation pressure should be increased according to the load on the vehicle. Therefore, if the vehicle is loaded to half the maximum payload, then the tyres should be inflated half way between the minimum and maximum pressures shown on the tyre placard. Refer to Chapter 10.

Vehicles driven for prolonged periods over rough roads, particularly in outback conditions, should use the cold tyre inflation pressure for maximum load condition.

If the pressure is too low, this can result in considerable tyre warm-up and internal damage leading to tread separation and even to tyre blowout at high speeds. If the pressure is too high, this can result in reduced traction, increased risk of tyre blowout and poor tyre wear.

Remember to install any valve dust caps or extensions, if so equipped. This stops dirt and moisture from fouling the valves.

When checking the tyre air pressure, take a look at the condition of the tyre tread and inspect for stones or abnormal wear.

Alignment and balance

Improper wheel alignment can cause the tyres to wear faster and unevenly. It can also cause the vehicle to 'pull' to the left or right.

Out-of-balance wheels and tyres can cause annoying vibration and uneven tyre wear such as cupping and flat spots.

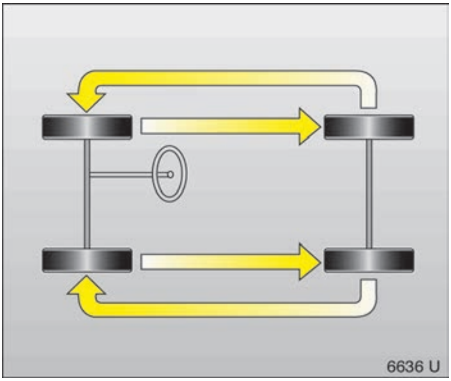
If you have any reason to suspect that either of the above problems exist then have a wheel alignment and balance check done by your Holden Retailer.

TYRES cont.

Tyre inspection and rotation

Front and rear tyres perform different jobs and can wear differently depending on the types of roads driven, your driving habits, wheel alignment and balance and tyre pressures.

Tyre condition will be checked for you when you take your vehicle to be serviced by your Holden Retailer, who will be able to diagnose any unusual signs of wear. If the tyres are rotated it is recommended that the balance be checked at the same time.



Heavy treads

Caution must be exercised when using tyres with heavy treads, including tyres designed to gain traction in bad weather conditions. At sustained high speeds, this type of tyre will run at higher temperatures than standard tyres and consequently should only be operated within the limits recommended by the manufacturer.

Any doubts concerning the fitness of the tyres on your vehicle for the purpose you require should be referred to your Holden Retailer.

Wheel replacement

When replacing wheels for any reason, ensure that the new wheels are equivalent in diameter, rim width, offset and mounting configuration to those originally installed in your vehicle.

Note: Replacing your factory fitted wheels and tyres with non specified wheels and tyres may affect your warranty as well as your motor vehicle insurance policy.

Tyre traction

WARNING:

A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other material is on the road surface. Driving practises and speed should be adjusted to the road conditions.

When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tyre and road surface. This phenomenon, known as hydroplaning, may cause partial or complete loss of traction, which adversely affects control and stopping ability. To reduce the possibility of traction loss, the following precautions should be observed.

1. Reduce speeds during rainstorms, when roads are slushy or if the road has standing water or puddles.
2. Replace tyres when the tread has worn down to the wear indicators.
3. Check that tyres are properly inflated.

TYRES cont.

Tyre replacement and repair

WARNING:

Do not mix different tyre construction types, such as radial and cross ply, on your vehicle except in emergencies, because your vehicle's handling could be affected and may result in loss of control.

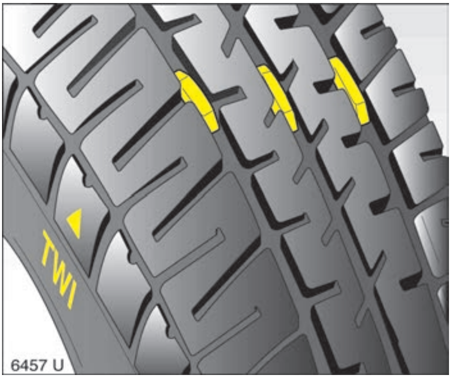
When replacing tyres you should use the same size, load rating and construction type as the original tyres on your vehicle. Refer to the tyre placard on your vehicle for tyre size and load rating. Using a different size or type of tyre may affect such things as ride, handling, speedometer / odometer calibration, ground clearance and tyre clearance to the body or the chassis.

Tyres with a higher speed rating and / or maximum load rating in excess of that listed are also acceptable as replacements provided they are fitted to a suitable rim size.

New tyres should be fitted in pairs to the front. If replacing only one tyre, it should be paired on the same axle with the least worn of the other three.

You should replace your tyres when:

- The tyres are worn to the point where the tread wear indicators, as shown, appear or the cord or fabric is showing.
- The tread or side wall is cut, split, or cracked deep enough to expose the cord or fabric.
- The tyre has a bump or bulge in it, indicating some kind of internal damage.
- The tyre has a puncture, cut or other damage which cannot be repaired because of the size or location of the damage.



If in doubt about the extent of damage to the tyre, have it removed from the wheel and examined by a tyre specialist.

If a pressure loss occurs while driving, do not attempt to drive on the deflated tyre more than is necessary to stop safely. Driving even a short distance on a deflated tyre can damage it and the wheel beyond repair.

When an object which has punctured the tyre is removed, repairs are to be made in accordance with the tyre manufacturer's recommendations.

WARNING:

Tyres which have been retreaded or improperly repaired cannot be operated safely at high speeds. Therefore, their use is not recommended.

CHAPTER 8

Specifications

Page

8-2 Specifications
Dimensions
8-5 Identification labels

SPECIFICATIONS

Vehicle	**BARINA (with manual transmission)**	**BARINA (with optional auto transmission)**	**BARINA SRi**
Engine type	Z14XEP, 16 valve DOHC 1,364 cc	Z14XE, 16 valve DOHC 1,389 cc	Z18XE, 16 valve DOHC 1,796 cc
Bore	73.4 mm	77.6 mm	80.5 mm
Stroke	80.6 mm	73.4 mm	88.2 mm
Comp. ratio	10.5:1	10.5:1	10.5:1
Engine oil spec.	ACEA service classification A2 or A3. Viscosity grade 15W–40 or 15W–50		
Refill oil capacity	3.5 litres (including filter)	3.5 litres (including filter)	4.25 litres (including filter)
Engine power	66 kW @ 5600 rpm (91 or 95 RON fuel)	66 kW @ 6000 rpm (91 or 95 RON fuel)	90 kW @ 6000 rpm (91 RON fuel) 92 kW @ 6000 rpm (95 RON fuel)
Engine torque	120 Nm @ 4000 rpm (91 RON fuel) 125 Nm @ 4000 rpm (95 RON fuel)	120 Nm @ 4000 rpm (91 RON fuel) 125 Nm @ 4000 rpm (95 RON fuel)	160 Nm @ 4,600 rpm (91 RON fuel) 165 Nm @ 4,600 rpm (95 RON fuel)
Coolant spec.	50% water and 50% Extended life anti-freeze coolant conforming to GM6277M specification		
Coolant capacity	6.1 litres (manual) 6.5 litres (automatic without A/C) 6.7 litres (automatic with A/C)	6.1 litres (manual) 6.5 litres (automatic without A/C) 6.7 litres (automatic with A/C)	5.3 litres (without A/C) 5.4 litres (with A/C)
Trans. fluid	MANUAL: Gear oil meeting Holden specification No. HN2354 (Castrol SMX–0 or equivalent) AUTOMATIC: Automatic transmission fluid meeting Holden specification No. HN2287 (Esso JWS 3305G)		
Trans. refill capacity	MANUAL: 1.6 litres AUTOMATIC: 5 litres (total)		
Brake fluid	Heavy duty brake fluid meeting S.A.E. specification J1703, DOT 4		
Clutch fluid	Heavy duty brake fluid meeting S.A.E. specification J1703, DOT 4		
Fuel tank capacity	44 litres	44 litres	44 litres
Battery	Maintenance free – 12 volt, 66 amp / hour		

SPECIFICATIONS cont.

Vehicle	**COMBO**
Engine type	Z16SE, 8 valve SOHC 1,598 cc
Bore	79.0 mm
Stroke	81.5 mm
Comp. ratio	9.6:1
Engine oil spec.	ACEA service classification A2 or A3. Viscosity grade 15W–40 or 15W–50
Refill oil capacity	3.5 litres (including filter)
Engine power	64 kW @ 5,400 rpm (91 or 95 RON fuel)
Engine torque	133 Nm @ 3000 rpm (91 RON fuel) 138 Nm @ 3000 rpm (95 RON fuel)
Coolant spec.	50% water and 50% Extended life anti-freeze coolant conforming to GM6277M specification
Coolant capacity	6.1 litres (with or without A/C)
Trans. fluid	MANUAL: Gear oil meeting Holden specification No. HN2354 (Castrol SMX–0 or equivalent) AUTOMATIC: Automatic transmission fluid meeting Holden specification No. HN2287 (Esso JWS 3305G)
Trans. refill capacity	MANUAL: 1.6 litres AUTOMATIC: 5 litres (total)
Brake fluid	Heavy duty brake fluid meeting S.A.E. specification J1703, DOT 4
Clutch fluid	Heavy duty brake fluid meeting S.A.E. specification J1703, DOT 4
Fuel tank capacity	50 litres
Battery	Maintenance free – 12 volt, 66 amp / hour

SPECIFICATIONS cont.

Dimensions

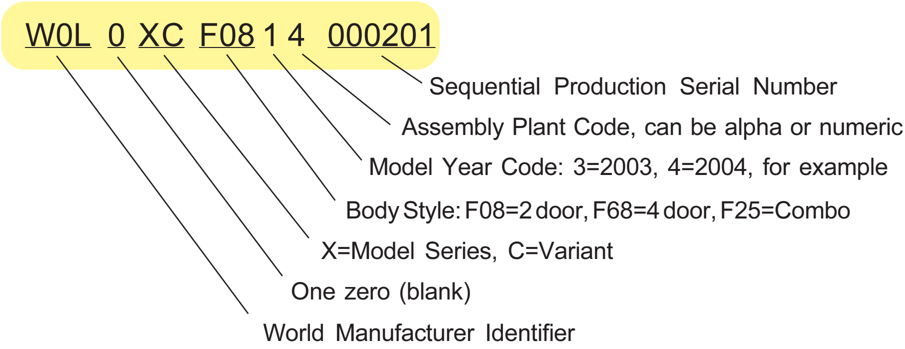
		BARINA	COMBO
Overall length		3817 mm	4322 mm
Overall width including mirrors		1955 mm	1892 mm
Overall height at kerb weight		1440 mm	1801 mm
Track	Front	1417 mm	1417 mm
	Rear	1408 mm	1440 mm
Wheel base		2491 mm	2716 mm

IDENTIFICATION LABELS

Vehicle identification number (ISOVIN)

A unique ISOVIN Number (example below) has been allocated to your vehicle. This number can be used for model identification when purchasing parts.

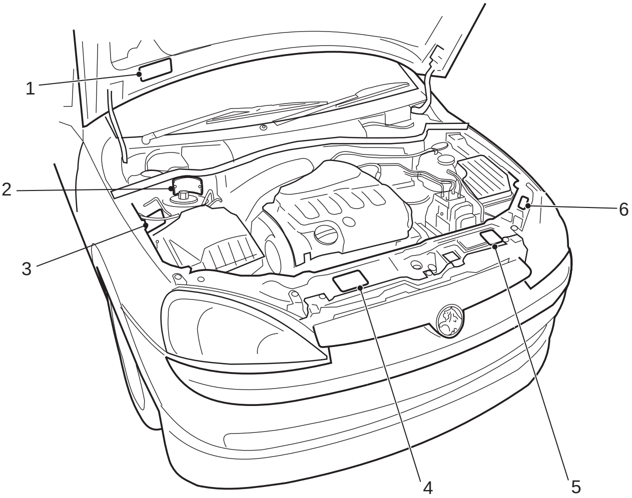
Refer to the following illustrations for the location of this label.


W0L 0 XC F08 1 4 000201
Sequential Production Serial Number
Assembly Plant Code, can be alpha or numeric
Model Year Code: 3=2003, 4=2004, for example
Body Style: F08=2 door, F68=4 door, F25=Combo
X=Model Series, C=Variant
One zero (blank)
World Manufacturer Identifier

Engine number

Individual identification numbers are stamped onto the engine. This number is located on the front of the engine block adjacent to the oil filter.

IDENTIFICATION LABELS cont.



1. Emission label (Barina)

This label shows the relevant tune-up information required to maintain minimum exhaust emissions. It is located on the underside of the bonnet (driver's side).

2. Safety compliance plate

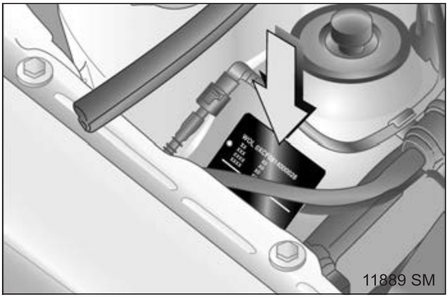
The compliance plate shows the vehicle approval number, category code, make, model and seating capacity. It also displays the ISOVIN number, which should be used when selecting spare parts. This plate is located on the engine bay partition, driver's side (Barina) or on the driver's side suspension tower (Combo).

3. Vehicle identification number (ISOVIN) plate

The ISOVIN. plate is located on the driver's side suspension tower, in the engine compartment.

4. A/C system plate (if fitted)

This label shows air conditioner system specifications.



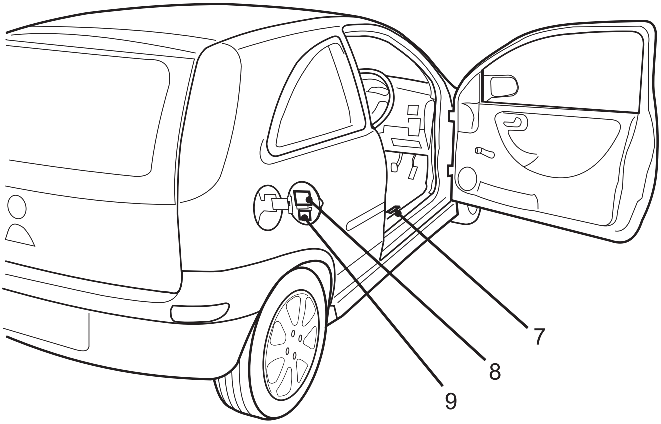
5. Warning label

This label serves as a reminder of some hazards that can exist in the engine area.

6. Holden identification plate (if fitted)

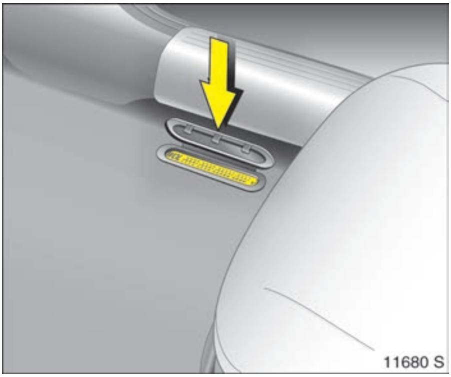
The Holden number on the Holden identification plate is used for warranty identification and Roadside Assistance identification. This plate is located on the passenger side of the radiator support panel.

IDENTIFICATION LABELS cont.



7. Vehicle identification stamp

This stamping shows the same number as displayed on the ISOVIN plate. It is stamped onto the body floor panel and is located under a hinged cover, at the right side of the driver's foot well.



8. Tyre placard

The tyre placard is located on the inside of the fuel filler flap.

9. Fuel label (Barina)

The fuel label shows the recommended fuel for your vehicle. Refer also to Chapter 5.

CHAPTER 9

After Sales

Page

9-2 New Vehicle Warranty
9-4 Parts and Accessories Warranty
9-5 Warranty Questions and Answers
9-8 Roadside Assistance
9-10 Customer Assistance
9-11 For New Zealand Holden Owners
9-12 Australian Holden Retailers
9-26 New Zealand Holden Retailers

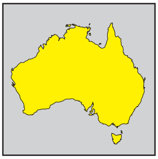
Note: The names and details of Retail Premises may change after the printing of this Handbook. The list contains both Authorised Holden Retailers and Authorised Holden Service Operations.

NEW VEHICLE WARRANTY CERTIFICATE

New Vehicle Warranty application

This Warranty is given by Holden Ltd., ABN 84 006 893 232, ('Holden'). The Warranty applies to the vehicle identified on the inside front cover of this Owner's Handbook. It is provided to the original and subsequent owners / operators driving the vehicle within Australia during the Warranty Period.

This Warranty is given in addition to all rights conferred by law on that person.



Australian vehicles

This Warranty is only applicable to vehicles purchased and operated in Australia.

Owners of vehicles purchased in Australia but operated overseas should consult the local Retailer in the country of operation about any Warranty applicable to their vehicle. This Warranty does not apply for Holden vehicles exported overseas. Similarly, this Warranty is not provided for vehicles purchased overseas and imported into Australia.

Repairs covered

Subject to the exclusions shown on the following page, this Warranty covers the correction, during the Warranty Period, of any vehicle defect related to materials or workmanship and advised to a Holden Retailer or Authorised Service Outlet, by repair or at Holden's option by replacement.

100,000kms
3
years

Warranty Period

The coverage commences from the date of delivery (or in the case of a demonstrator vehicle the date when the vehicle was first placed into service by the Retailer). The coverage expires at the end of the period of 3 years after the commencement date or after the vehicle has travelled 100 000 km, whichever occurs first.

No charge

Warranty work undertaken (including parts and labour) will be carried out at no cost to the vehicle owner. However, this work should not be confused with servicing specified in the Maintenance schedule in chapter 12 of this Owner's Handbook for which a charge is payable.

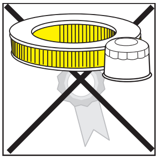
NEW VEHICLE WARRANTY CERTIFICATE cont.

Warranty exclusions

- **Damage**

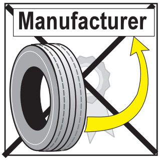
Your Warranty does not extend to the following damage: Damage caused by an accident, fire, theft or moving objects striking the vehicle.

Damage caused by industrial fallout, chemicals or sealants. Damage caused by atmospheric fallout or flood, hail and salt.



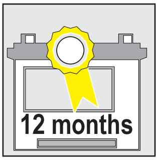
- **Maintenance items**

Services which are required as part of normal vehicle maintenance, such as brake adjustment, replacement of filters and wiper rubbers. Refer to Chapter 12.



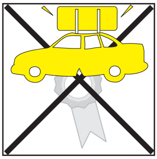
- **Tyres**

The tyres (and tubes where applicable) fitted to your vehicle are not covered by this Warranty. However, they may be covered by the tyre manufacturer.



- **Batteries**

Batteries are warranted for 12 months.



- **Misuse**

The warranty does not cover damage caused by:

(a) misuse or abuse of the vehicle, such as by racing, rallying, overloading or neglect

(b) operation of the vehicle after the defect is known

(c) failure to carry out proper maintenance services

(d) use of incorrect types and grades of fuel, oil or lubricants

(e) alteration of the vehicle by anyone not authorised by Holden

(f) fitting of parts or accessories not recommended by Holden

(g) any work carried out on the vehicle by anyone except a Holden Retailer or authorised Service Outlet.

PARTS AND ACCESSORIES WARRANTY

Holden warrants Holden approved Parts and Accessories ('Parts' and 'Accessories') for the periods and on the conditions set out below. The Warranty covers the correction, during the relevant Warranty Period, of defects in any such Parts and Accessories, by repair or at Holden's option by replacement.

- **Accessories installed to the new vehicle**

  Holden approved Accessories installed by a Holden Retailer or authorised Service Outlet to the new vehicle at the time of purchase are covered together with the New Vehicle warranty for the period of three years or 100 000 km, whichever occurs first.

- **Parts and Accessories installed after new vehicle delivery by a Holden Retailer or authorised Service Outlet**

  Parts and Accessories are covered for two years or 50 000 km (whichever occurs first). If the vehicle is still within the New Vehicle Warranty the Parts and Accessories are covered by the longer of:

  Two years / 50 000 km (whichever occurs first)

  or

  the end of the New Vehicle Warranty.

  As an example, an Accessory installed in a 7 month old vehicle would be covered until the end of the New Vehicle Warranty; an Accessory installed in a 2½ year old vehicle would be covered until the end of four and-a-half years or a further 50 000 km from when the Accessory was installed.

- **Purchased at retail or trade**
  Parts and Accessories purchased at trade or retail and installed by other than a Holden Retailer or authorised Service Outlet are warranted for 1 year from the date of purchase. Please keep a receipt to support warranty claims.

  The Warranty does not cover the labour costs of removal / reinstallation of Parts and Accessories when installed or rectified by other than a Holden Retailer or authorised Service Outlet.

- **Parts and accessories warranty exclusions**

  The tyres (and tubes where applicable) are not covered by this warranty. However, they may be covered by the tyre manufacturer.

  Batteries are warranted for 12 months from date of purchase.

  Parts which are required as part of normal vehicle maintenance are warranted against manufacturing defect at the time of installation. Consult your Holden Retailer to confirm the period of this warranty.

WARRANTY QUESTIONS AND ANSWERS

This section is designed to assist you in understanding the Holden Warranty provided with your new vehicle.

The following are some of the most frequently asked questions, for which detailed answers are provided.

Q 1. How do I go about obtaining Holden Warranty service?

It is the responsibility of the Holden Selling Retailer to provide Holden Warranty service, therefore you should take your vehicle to the Holden Selling Retailer whenever Holden Warranty service is needed. However, if this is not possible, you may go to any other Authorised Holden Retailer. The details recorded inside the front cover of this handbook will be required by the Holden Retailer.

Q 2. What should I do if my vehicle becomes unsafe or inoperative as a result of a defect which is covered by the Holden New Vehicle Warranty?

You should contact the nearest Authorised Holden Retailer or Holden Customer Assistance Service (refer further in this chapter) as soon as possible, and arrange for that Retailer to carry out the required Holden Warranty Service.

Q 3. What should I do if, in an emergency, Holden Warranty service is required and an Authorised Holden Retailer is not available to provide such service at the time?

If, in an emergency, a repair, replacement or adjustment (covered by the Holden New Vehicle Warranty) is required to enable your vehicle to be operated safely and it is not practical for you to go to an Authorised Holden Retailer, the service (to the extent that it is necessary to enable your vehicle to be operated safely) may be performed by any other qualified mechanic or repairer. A claim for the reasonable cost may be made through the Authorised Holden Retailer who would normally provide you with Holden Warranty Service. You must also take your vehicle to the Authorised Holden Retailer for inspection of the service and / or completion of any required Holden Warranty service, as soon as possible.

Note: During normal business hours you should seek authorisation from your nearest Authorised Holden Retailer or Holden Customer Assistance Service, prior to repairs being commenced.

Q 4. Are damage or injury, loss of time, inconvenience, commercial or other direct or indirect loss covered by the Holden Warranty?

No, these items are not covered. Holden warranty only covers the repair, replacement or adjustment of those parts of your vehicle which are found to be defective in materials or workmanship. No other types of claim for compensation of any kind, even if the same resulted from a consequence of a defect in materials or workmanship in your vehicle, will be recognised under the Holden New Vehicle Warranty.

You may have rights under the law to claim compensation outside of the Holden New Vehicle Warranty, but any claim based on those rights should be separately pursued.

WARRANTY QUESTIONS AND ANSWERS cont.

Q 5. Will I have to pay for maintenance costs during the Warranty Period?

Maintenance costs are not covered by the Holden New Vehicle Warranty. The maintenance schedule in Chapter 12 specifies the *minimum* maintenance required for your vehicle operating under normal conditions.

The Maintenance items (except where they are required as a result of defects in materials or workmanship) for which you will have to pay include:

- Engine tune-up, including spark plugs replacement.
- Replacement of all filters, engine and other belts, hoses, wiper blades, clutch linings.
- Cleaning or flushing of fuel, coolant, brake, engine, transmission, differential and power steering, for example, after 1500 km.
- Carbon and sludge removal.
- Maintenance servicing of emission control system devices.
- Adding to (or replacing) lubricants.
- Adding to (or replacing) air conditioning refrigerant, after 1500 km.
- Any necessary adjustments to drive belts, transmissions, clutch, park brake, for example.
- Wheel balancing – after 5000 km.
- Wheel alignment.
- De-dusting or de-glazing of brake linings or pads – after 1500 km.
- Brake lining wear or damaged brake components due to lining wear.
- Clutch lining wear or damaged clutch components due to lining wear.
- Battery recharging.
- Paint, bright metal finish and trim, due to normal deterioration.
- Body panel adjustment – after 1500 km.
- Door or bonnet lock adjustments.
- Glass or channel adjustments – after 1500 km.
- Body rattle, squeaks and general tightening of bolts, fasteners and fittings – after 1500 km.
- Chipped glass or breakage.
- Torn or damaged floor mats or carpets.
- Normal wear and tear to trim components.

Q 6. Are my tyres covered by the Holden New Vehicle Warranty?

No. The tyres fitted to your vehicle are covered by a separate warranty provided by the tyre manufacturer. Any Authorised Holden Retailer will assist you by discussing any queries which you might have with respect to the tyre manufacturer's warranty with the tyre manufacturer's representative.

WARRANTY QUESTIONS AND ANSWERS cont.

Q 7. Will I have to pay for any costs or expenses in connection with the provision of Holden Warranty service?

All parts and labour used in carrying out Holden Warranty service at the premises of the servicing Holden Retailer are free of charge. Whenever Holden Warranty service is to be carried out by the servicing Holden Retailer it is your responsibility to deliver your vehicle to the servicing Holden Retailer's premises.

If, as a result of a defect which is covered by the Holden New Vehicle Warranty, your vehicle cannot be driven safely and you arrange for the nearest Authorised Holden Retailer to carry out the required Holden Warranty service, Holden will accept reasonable towing costs to move your vehicle to the nearest Holden Retailer's premises. Before employing a towing company, contact the nearest Holden Retailer and / or Holden Customer Assistance Service (refer page 10 of this chapter) to obtain guidance.

Q 8. Would my vehicle's engine benefit from fuel additives, oil additives or coolant additives not marketed by Holden?

The use of break-in oil, tune-up compounds, friction-reducing compounds and other supplemental additives is not recommended; their use will not only increase operating costs, but may also be detrimental to the operation of your vehicle and can affect the validity of your New Vehicle Warranty.

Only the fluids and lubricants referred to in this handbook should be used.

UNAUTHORISED STATEMENTS IN RELATION TO HOLDEN PRODUCTS

No Holden Retailer or other person is authorised or permitted to give or make any statement, assertion or undertaking in relation to the quality, performance, characteristics, descriptions or fitness for any purpose of any Holden product or in connection with the supply of any Holden product, which is at variance with any written statement, assertion or undertaking on any of these subjects given or made by Holden in its published sales literature, and Holden does not accept responsibility for any such unauthorised action.

ROADSIDE ASSISTANCE

3 YEAR
24 HOUR ROADSIDE ASSISTANCE

Our commitment to your satisfaction

Holden's Roadside Assistance is part of the unequalled commitment by Holden to provide total motoring satisfaction.

From the moment delivery is made, our aim is to provide the finest possible ownership experience, from design through manufacturing to servicing and now beyond to the open road, Australia wide.

We hope the need never arises, but if it does, we'll be there to help through Holden Roadside Assistance.

How does Holden Roadside Assistance work?

Holden Roadside Assistance is provided by Holden Ltd. and delivered by the collective resources of the Australian Automobile Clubs and Associations including the constituents of Assist Australia (AA).

Which vehicles are covered by the service?

As of 1st November 1993 all new Holden passenger and light commercial vehicles are covered for 36 months from the date of first registration.

Holden Roadside Assistance is extended to private and business vehicles, taxis, rental companies, all government and fleet operators.

What will Holden Roadside Assistance do for me?

Holden Roadside Assistance is designed to get you mobile on any road that is trafficable to normal two wheel drive vehicles. In the event of the unexpected happening, from your keys being locked in your vehicle to mechanical and accident advice, help is readily available by simply calling the toll free number 1800 817 100.

All Holden luxury vehicles receive the added benefits of Holden Roadside **Ultra** Assist which includes accommodation, alternative transport, rental car, assistance in case of accident, theft and medical emergency and Australia-wide vehicle recovery.

Can I upgrade to Roadside Ultra Assistance?

Yes, owners can upgrade to Holden Roadside **Ultra** Assistance for a fee by dialling 1800 645 668. To request a copy of the Ultra terms and conditions, contact the toll free Customer Assistance Service Line on 1800 033 349.

ROADSIDE ASSISTANCE cont.

When do the benefits begin?

Cover begins from the date of first registration. An interim card entitles you to immediately receive all the benefits of Holden Roadside Assistance.

Where can I get Roadside Assistance?

Holden Roadside Assistance is available to you at home, or at the roadside, anywhere in Australia, should you need it. In remote or sparsely populated areas you may experience delays in obtaining Roadside Assistance due to your location, the availability of the service provider and accessibility.

Is there a membership or joining fee?

No, Holden Roadside Assistance is complimentary with every new Holden passenger vehicle and light commercial vehicle for 36 months from the date of first registration.

What will Holden Roadside Assistance cost me?

Materials, fuel and spare parts must be paid for at the time of service. The service personnel attending will issue a receipt for these expenses. Reimbursement of expenses covered by Holden’s warranty can be claimed by contacting your local Holden Retailer.

What happens if I sell my vehicle?

Holden Roadside Assistance stays with the vehicle, so if you sell your vehicle during the 36 month period, it is still eligible for the balance of the Holden Roadside Assistance. The new owner simply registers for the service by using the change of ownership form supplied in the Roadside Assistance booklet.

How do I call for assistance?

Simply call Holden Roadside Assistance toll free on 1800 817 100 from anywhere in Australia. For further information regarding the service and full terms and conditions, refer to the Roadside Assistance Kit in the glovebox or call the toll free Customer Assistance Service Line on 1800 033 349.

CUSTOMER ASSISTANCE

We want you to be happy with your new vehicle, together with the people you deal with while you have the vehicle.

Normally, any problems with the sales, operation, servicing or the validity of original equipment supplied with your vehicle will be handled by your Holden Retailer's Sales and Service Department.

We realise however that, with the best intentions, misunderstandings do occur sometimes.

☞ Therefore, we suggest you discuss any concern with one of the Holden Retailer's management people. If you haven't received satisfaction from the Sales Manager or Service Manager – go to the General Manager or to the Dealer Principal.

By now you should have satisfaction. If not, the Holden Customer Assistance office is at your disposal.

☎ The Australian Holden Customer Assistance representatives can be telephoned from anywhere within Australia for only the cost of a local call.

The Melbourne area number is **9646 5466**.

Outside the Melbourne Metropolitan area, the number is **1800 03 3349**.

If your concern relates to parts / accessories and you have made contact with the Retailer or Distributor without satisfaction, you may contact Holden Service Parts Operations on (03) 9797 7341.

Naturally, telephoning is the quickest and the best way to contact. However, if you prefer to write, the address is:

✉ The Manager
Holden Customer Assistance Centre
GPO Box 1714
Melbourne 3001

Your letter should clearly outline your concern or query, and include the following:

✍
- Your name and address
- Telephone numbers, both private and business
- Servicing Retail Premise's name and address
- Vehicle model
- Vehicle identification number (ISOVIN), refer to the inside front cover of this Handbook
- Date of purchase
- Current odometer reading.

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of this handbook.

Remember that the telephone is the quicker and more efficient means of communication.

FOR NEW ZEALAND HOLDEN OWNERS

The information in this Owner's Handbook applies primarily to Australian Holden vehicles and there may be some differences to the Warranty and Owner Assistance provisions for New Zealand. Applicable details for New Zealand are set out in the Holden Warranty and Owner Assistance Information booklet enclosed in the New Zealand glovebox wallet.

For your convenience, a list of New Zealand Retailers is provided at the end of this Chapter.

☎ New Zealand Assistance can be reached on:

0800 HOLDEN (0800 465336)

This number provides access to New Zealand Roadside Assistance as well as New Zealand Customer Assistance.

✉ If you prefer to write, the address is:

The Manager
Holden Customer Assistance Centre
GPO Box 1714
Melbourne
Australia 3001

AUSTRALIAN HOLDEN RETAILERS

N.S.W. Metropolitan

ARNCLIFFE
Suttons Motors Arncliffe P/L
93 Princes Highway
P: (02) 9335 9000 FAX: (02) 9335 9006

ARNDELL PARK
Heartland Holden
8 Holbeche Road
P: 13 10 88 FAX: (02) 9676 6255

ASHFIELD
Muirs Holden
252 Parramatta Road
P: (02) 9798 8888 Fax: (02) 9799 7010

BALGOWLAH
Peninsula Holden Balgowlah
164 Condamine Street
P: (02) 9949 1888 FAX (02) 9949 7237

BANKSTOWN
Peninsula Holden Bankstown
466 Chapel Road
P: (02) 9790 1234 Fax: (02) 9790 0033

BLACKTOWN
Heartland Holden
120~128 Sunnyholt Road
P: (02) 9622 7333 Fax: (02) 9671 7394

CAMDEN
Paul Wakeling Holden-Camden
33 Edward Street
P: (02) 4655 5000 Fax: (02) 4655 5001

CAMPBELLTOWN
Paul Wakeling Holden
Cnr Blaxland & Campbelltown Roads
P: (02) 4628 1444 Fax: (02) 4628 3262

CASTLE HILL
Heartland Holden
Cnr Victoria Ave/Windsor Road
P: (02) 9894 6666 Fax: (02) 9894 5600

CHATSWOOD
Sundell Holden
Cnr Smith and Gibbes Street
P: (02) 9417 8431 Fax: (02) 9417 7552

CHULLORA
Suttons Motors (Chullora) P/L
Cnr Hume Hwy/Waterloo Road
P: (02) 9642 0233 Fax: (02) 9642 7798

CREMORNE
Hunter Holden
261 Military Road
P: (02) 9904 1111 Fax: (02) 9904 1444

DEE WHY
Peninsula Holden Dee Why
Cnr May & Mooramba Roads
P: (02) 9982 1311 Fax: (02) 9982 3755

EAST SYDNEY
Suttons City Holden
101 Williams Street
P: (02) 9331 3377 Fax: (02) 9331 6312

FAULCONBRIDGE, BLUE MOUNTAINS
Blue Mountains Holden
435~437 Great Western Hwy
P: (02) 4751 1911 Fax: (02) 4751 2481

HOMEBUSH
Suttons Motors Homebush P/L
112 Parramatta Road
P: (02) 9746 4500 Fax: (02) 9746 7206

LANSVALE
Lansvale Holden
266~284 Hume Highway
P: (02) 9728 7333 Fax: (02) 9726 1085

LIVERPOOL
McGrath Holden
411~419 Hume Highway
P: (02) 9821 5000 Fax: (02) 9821 1993

PARRAMATTA
Heartland Holden
65 Church Street
P: (02) 9204 6666 Fax: (02) 9635 6346

PENNANT HILLS
Barry Smith Holden
343~355 Pennant Hills Road
P: (02) 9483 3333 Fax: (02) 9484 7475

PENRITH
Heartland Holden
39-47 Henry St
P: (02) 4732 1966 Fax: (02) 4721 5896

ROSEBERY
Suttons City Holden
Link Road
P: (02) 9931 3000 Fax: (02) 9931 3001

RYDE
Hunter Holden
603~619 Victoria Road
P: (02) 8878 7878 Fax: (02) 8878 9578

ST LEONARDS
Hunter Holden
4 Herbert Street
P: (02) 9906 4044 Fax: (02) 9439 4635

ST. MARY'S
Heartland Holden
Cnr Glossop & Harris Streets
P: (02) 9673 2111 Fax: (02) 9673 4932

SUTHERLAND
McGrath Holden Sutherland
499~505 Princes Highway
P: (02) 9545 4811 Fax: (02) 9545 2533

AUSTRALIAN HOLDEN RETAILERS CONT.

WAITARA
Suttons Motors Waitara P/L
90 Pacific Hwy
P: (02) 9487 2222 Fax: (02) 9489 0009
WINDSOR
Hawkesbury Valley Holden
18 Macquarie Street
P: (02) 4577 4077 Fax: (02) 4577 2592

N.S.W. Country

ARMIDALE
Graham Betts Holden
103 Rusden Street
P: (02) 6772 9444 Fax: (02) 6772 5836
BALLINA
Quayside Motors
Cnr Ronan Place & Pacific Hwy
P: (02) 6686 5111 Fax: (02) 6686 8574
BATHURST
Bathurst Holden
Mitchell Highway
P: (02) 6331 2077 Fax: (02) 6331 9177
BEGA
Bega Valley Holden
Cnr Upper and Gibbs Sts
P: (02) 6492 2333 Fax: (02) 6492 3105
BLAYNEY
Blayney Holden
98 Adelaide Street
P: (02) 6368 2745 Fax: (02) 6368 3257
BOMBALA
Delcott Engineering Pty Ltd
Maybe Street
P: (02) 6458 3341 Fax: (02) 6458 3940
BOOROWA
Boowowa Auto Repairs
40 Marsden Street
P: (02) 6385 3305
BROKEN HILL
Donlee Motors Pty Ltd
Cnr Galena & Rakow Streets
P: (08) 8087 2463 Fax: (08) 8087 7971
CARDIFF
Kelly Holden
35~39 MacQuarie Road
P: (02) 4954 7733 Fax: (02) 4954 9407
CASINO
Quayside Motors
142 Barker Street
P: (02) 6662 2822 Fax: (02) 6662 2101
CESSNOCK
Geoff Boyd Holden
240~246 Maitland Road
P: (02) 4990 0555 Fax: (02) 4990 0575
COBAR
Cobar Holden
Cnr Lewis St & Louth Road
P: (02) 6836 4005 Fax: (02) 6836 3409
COFF'S HARBOUR
Geoff King Holden
Cnr Pacific Hwy and Thompson Road
P: (02) 6652 2288 Fax: (02) 6652 5360
COOMA
High Country Holden
66~70 Sharp Street
P: (02) 6452 1077 Fax: (02) 6452 1142
COONABARABRAN
Coonabarabran Holden
24 Charles Street
P: (02) 6842 1499 Fax: (02) 6842 2473
COONAMBLE
Moody's Motors
37 Aberford Street
P: (02) 6822 1161 Fax: (02) 6822 1624
COOTAMUNDRA
Jenkins Garage
111 Wallendoon Street
P: (02) 6942 2522 Fax: (02) 6942 1493
COROWA
Jasper Bros. Pty Ltd
245 Honour Avenue
P: (02) 6033 0391 Fax: (02) 6033 3319
COWRA
Waugoola Motors Pty Ltd
Kendal Street
P: (02) 6342 1800 Fax: (02) 6342 3614
CROOKWELL
Crookwell Autos
114 Goulburn Street
P: (02) 4832 1433 Fax: (02) 4832 2157
DENILIQUIN
Burchfield Bros & Co
112~114 End Street
P: (03) 5881 2133 Fax: (03) 5881 3322
DORRIGO
Phil Noble Motors
46~48 Hickory Street
P: (02) 6657 2017 Fax: (02) 6657 2217
DUBBO
Golden West Holden
54 Bourke Street
P: (02) 6882 1011 Fax: (02) 6882 7102
DUNGOG
Turner Holden
1 Park Street
P: (02) 6558 1108 Fax: (02) 6558 2317

AUSTRALIAN HOLDEN RETAILERS cont.

EDEN
Ron Doyle
113 Princes Highway
P: (02) 6496 1420 Fax: (02) 6496 1467
FINLEY
Riverina Holden
104 Murray Street
P: (03) 5883 1211 Fax: (03) 5883 1638
FORBES
Frank Spice Holden
20~22 Dowling Street
P: (02) 6851 1755 Fax: (02) 6852 4089
GATESHEAD
Brian Kelly Holden
39 Pacific Highway
P: (02) 4920 7000 Fax: (02) 4920 8008
GILGANDRA
Gilgandra Holden
1 Morris Street
P: (02) 6847 1888 Fax: (02) 6847 1277
GLEN INNES
Glen Severn Holden
167 Grey Street
P: (02) 6732 2888 Fax: (02) 6732 3394
GLOUCESTER
Turner Holden
1 Park Street
P: (02) 6558 1108 Fax: (02) 6558 2317
GOSFORD
Barry Robertson Holden
10 Pacific Highway
P: (02) 4325 0511 Fax: (02) 4324 1043
GOULBURN
Geissler Motors
279~298 Auburn Street
P: (02) 4821 3744 Fax: (02) 4821 9798
GRAFTON
Ken Casson Holden
37~39 Turf Street
P: (02) 6642 6666 Fax: (02) 6642 6737
GRIFFITH
Leo Franco Holden
164~166 Yambil Street
P: (02) 6964 2977 Fax: (02) 6962 4916
GUNNEDAH
Namoi Valley Motors
48 Barber Street
P: (02) 6742 0211 Fax: (02) 6742 3842
HARDEN
Ginty & O'Leary
Cnr Station & Albury Streets
P: (02) 6386 2320 Fax: (02) 6386 2722
HAY
Royce Curtis Motors
168 Lachlan Street
P: (02) 6993 1503 Fax: (02) 6993 2212
HOLBROOK
Lieschke Motors Pty Ltd
78 Albury Street
P: (02) 6036 2244 Fax: (02) 6036 2831
INVERELL
Gaukroger Sales Pty Ltd
28-30 Vivian Street
P: (02) 6722 2722 Fax: (02) 6722 1804
KANDOS
Chrisfield Holden
11 Angus Street
P: (02) 6379 4204 Fax: (02) 6379 4606
KEMPSEY
Thoroughgood Holden
118~132 Belgrave Street
P: (02) 6562 1381 Fax: (02) 6562 1383
KIAMA
Glen Fulton Holden
35~41 Collins Street
P: (02) 4232 1888 Fax: (02) 4232 3062
KYOGLE
O & H Holden
128~134 Summerland Way
P: (02) 6632 1711 Fax: (02) 6632 2552
LEETON
John Ryan Holden
47~51 Pine Avenue
P: (02) 6953 2466 Fax: (02) 6953 6725
LISMORE
Quayside Motors
30 Ballina Road
P: (02) 6621 1888 Fax: (02) 6622 4659
LITHGOW
Lithgow City Holden
255 Main Street
P: (02) 6351 4555 Fax: (02) 6351 4653
MACKSVILLE
Eastland Holden
18~22 Cooper Street
P: (02) 6568 1711 Fax: (02) 6568 1816
MACLEAN
O'Halloran Motors
175 River Street
P: (02) 6645 2844 Fax: (02) 6645 4003
MAITLAND
Heritage Holden
Cnr New England Hwy & Bungaree St
P: (02) 4932 0779 Fax: (02) 4932 0473
MOREE
Keith Haddad Holden
Cnr Boston & Heber Streets
P: (02) 6752 1855 Fax: (02) 6752 1298
MORUYA
Surfair Holden
88 Vulcan Street
P: (02) 4474 2555 Fax: (02) 4474 2129

AUSTRALIAN HOLDEN RETAILERS cont.

MOSS VALE
Moss Vale Holden
160~162 Argyle Street
P: (02) 4868 1055 Fax: (02) 4868 3330
MUDGEE
Ross Granata Motors
32 Sydney Road
P: (02) 6372 1766 Fax: (02) 6372 3735
MULLUMBIMBY
Tony Carsburg Holden
2 Argyle Street
P: (02) 6684 2066 Fax: (02) 6684 4593
MURWILLUMBAH
Twin Towns Holden
29 Prospero Street
P: (02) 6672 4444 Fax: (02) 6672 5811
MUSWELLBROOK
Muswellbrook Holden
116 Bridge Street
P: (02) 6543 2577 Fax: (02) 6543 2565
NARROMINE
Narromine Holden
45~51 Dandaloo Street
P: (02) 6889 1244 Fax: (02) 6889 2277
NARRABRI
Allan Cooper Holden
181 Maitland Street
P: (02) 6792 3488 Fax: (02) 6792 4750
NEWCASTLE
Newcastle City Holden
King Street (Cnr Stewart Ave)
P: (02) 4961 5301 Fax: (02) 4961 6485
NOWRA
Glendon Motors Holden
301~313 Princes Highway
P: (02) 4421 0144 Fax: (02) 4423 0854
ORANGE
Canobolas Holden
Cnr Summer St & Endsleigh Ave
P: (02) 6362 0155 Fax: (02) 6361 3702
PARKES
Broderick Motors Holden
Cnr Mitchell & Clarinda Sts
P: (02) 6862 2266 Fax: (02) 6862 1406
PORT MACQUARIE
Bob Todd Motors Pty Ltd
115 Gordon Street
P: (02) 6583 1100 Fax: (02) 6584 9508
QUIRINDI
Browning Motors
82 Henry Street
P: (02) 6746 1666 Fax: (02) 6746 1422
SCONE
Scone Holden
100 Liverpool Street
P: (02) 6545 1355 Fax: (02) 6545 1853
SINGLETON
Lancaster Holden
80 John Street
P: (02) 6578 8700 Fax: (02) 6578 8733
TAMWORTH
Kensell's Holden
Cnr Bourke St & Kable Ave
P: (02) 6766 6699 Fax: (02) 6766 7339
TAREE
Cullen Holden
21~25 Victoria Street
P: (02) 6552 2222 Fax: (02) 6552 1269
TEMORA
Rod Lovering Holden
607-608 Stockinbingal Road
P: (02) 6977 2255 Fax: (02) 6977 2033
TENTERFIELD
Sexton & Green (Sales & Service) P/L
148 Rouse Street
P: (02) 6736 1855 Fax: (02) 6736 1946
TUGGERAH
Barry Robertson Holden
172 Pacific Highway
P: (02) 4351 2588 Fax: (02) 4352 1759
TUMUT
Holden Tumut Service Centre
52 Adelong Road
P: (02) 6947 6374 Fax: (02) 6947 6314
TUNCURRY
Cullen Holden
144 Manning Street
P: (02) 6555 6644 Fax: (02) 6555 7433
TWEED HEADS
Von Bibra Twin Towns Holden
75-79 Pacific Highway
P: (07) 5536 3411 Fax: (07) 5536 4490
ULLADULLA
Alan May Holden
169 Princes Highway
P: (02) 4455 1166 Fax: (02) 4455 4122
WAGGA WAGGA
Wagga Motors Pty Ltd
32 Dobney Avenue
P: (02) 6925 3411 Fax: (02) 6925 3283
WALGETT
Walgett Garage Pty Ltd
81 Wee Waa Street
P: (02) 6828 1088 Fax: (02) 6828 1198
WALLA WALLA
D.E. Lieschke & Son Pty Ltd
63 Commercial Road
P: (02) 6029 2202 Fax: (02) 6029 2134
WARIALDA
Roger Moore
Hope Street
P: (02) 6729 1570 Fax: (02) 6729 1104

AUSTRALIAN HOLDEN RETAILERS cont.

WARILLA
Wilson's Holden
29 Shellharbour Road
P: (02) 4295 1223 Fax: (02) 4296 1007
WARREN
Fuller Bros
Dubbo Street
P: (02) 6847 4978 Fax: (02) 6847 4477
WELLINGTON
Gersbach's Garage Pty Ltd
92 Lee Street
P: (02) 6845 2733 Fax: (02) 6845 3236
WEST WYALONG
West Wyalong Motors
183 Main Street
P: (02) 6972 2388 Fax: (02) 6972 2570
WOLLONGONG
Dwyers City Holden
31~33 Crown Street
P: (02) 4229 9222 Fax: (02) 4229 5105
YOUNG
Harden & Geelan Holden
30 Boorowa Street
P: (02) 6382 1155 Fax: (02) 6382 4673

A.C.T.

BELCONNEN
Gerald Slaven Holden
2 Josephson Street
P: (02) 6251 5111 Fax: (02) 6253 1298
BRADDON
Rolfe Holden
44 Mort Street
P: (02) 6248 7888 Fax: (02) 6257 1328
PHILLIP
Commonwealth Motors Pty Ltd
158 Melrose Drive
P: (02) 6282 3522 Fax: (02) 6282 5214

Tas.

BURNIE
Motors Burnie
Marine Terrace
P: (03) 6431 1122 Fax: (03) 6431 3146
DEVONPORT
Motors Devonport
Victoria Parade
P: (03) 6424 4033 Fax: (03) 6424 5249
HOBART
Motors Pty Ltd
179 MacQuarie Street
P: (03) 6230 7307 Fax: (03) 6230 7380

Vic. Metropolitan

BACCHUS MARSH
Alan Mance Holden Bacchus March
4 Graham Street
P: (03) 5367 4300 Fax: (03) 53674299
BERWICK
Barry Bourke Holden
755 Princes Highway
P: (03) 9707 2222 Fax: (03) 9707 3091
BUNDOORA
Watson Holden
413 Grimshaw Street
P: (03) 9467 4677 Fax: (03) 9467 7661
BURWOOD
Penfold Holden
142 Burwood Highway
P: (03) 9268 1333 Fax: (03) 9268 1335
CHELSEA
Harrison Holden
370 Nepean Highway
P: (03) 9772 2233 Fax: (03) 9772 2190
CHELTENHAM
Booran Holden
1212 Nepean Highway
P: (03) 9584 3333 Fax: (03) 9584 4285
DANDENONG
Booran Holden
17 Lonsdale Street
P: (03) 9794 5455 Fax: (03) 9792 4871
DONCASTER
Doncaster Holden
808 Doncaster Road
P: (03) 8848 1330 Fax: (03) 8848 1331
ELSTERNWICK
Summit Holden
67 Nepean Highway
P: (03) 9528 2222 Fax: (03) 9532 8636
ESSENDON
Preston Motors (Essendon) P/L
205~211 Keilor Road
P: (03) 9374 2888 Fax: (03) 9379 6754
FAWKNER
Mantello Holden
1263 Sydney Road
P: (03) 9359 1333 Fax: (03) 9359 9334
FERNTREE GULLY
Ferntree Gully Holden
980 Burwood Highway
P: (03) 9753 1222 Fax: (03) 9753 1242
FOOTSCRAY
Alan Mance Holden
435 Barkly Street
P: (03) 9396 8000 Fax: (03) 9396 8001

AUSTRALIAN HOLDEN RETAILERS cont.

FRANKSTON
Bay City Holden
140 Dandenong Road
P: (03) 9784 4444 Fax: (03) 9784 4419
GLENHUNTLY
Booran Holden
1234 Glenhuntly Road
P: (03) 9571 9313 Fax: (03) 9571 8374
GLEN WAVERLEY
Barloworld Holden
565~577 Springvale Road
P: (03) 9550 5888 Fax: (03) 9550 5855
HEIDELBERG
Ralph D'Silva Holden
112 Bell Street
P: (03) 9479 4088 Fax: (03) 9450 2909
LILYDALE
Heritage Holden
344 Main Street
P: (03) 9735 5566 Fax: (03) 9735 1040
MELTON
Alan Mance Holden
1 Holland Drive
P: (03) 9746 9666 Fax: (03) 9746 9555
MORNINGTON
John Collins Holden
976 Nepean Highway
P: (03) 5975 4433 Fax: (03) 5975 4720
OAKLEIGH
Garry & Warren Smith
1575 Dandenong Road
P: (03) 9568 6333 Fax: (03) 9568 5691
PRESTON
Ralph D'Silva Holden
573~603 High Street
P: (03) 9471 0500 Fax: (03) 9478 3103
RINGWOOD
Patterson Cheney Holden
45~57 Maroondah Highway
P: (03) 9262 6666 Fax: (03) 9870 1113
ROXBURGH PARK
Mantello Holden Roxburgh Park
215 Somerton Road
P: (03) 9930 4444 Fax: (03) 9930 4400
SOUTH MELBOURNE
South City Holden
380 City Road
P: (03) 9627 3333 Fax: (03) 9682 6888
SOUTH YARRA
Penfold Holden
681 Chapel Street
P: (03) 9827 2272 Fax: (03) 9826 5328
SUNBURY
Sunbury Holden
93~95 Horne Street
P: (03) 9740 3000 Fax: (03) 9740 4777
SUNSHINE
Kevin Dennis Holden
272 Ballarat Road
P: (03) 9292 9292 Fax: (03) 9292 9200
WERRIBEE
Ballan Holden
56 Princes Highway
P: (03) 9974 8888 Fax: (03) 9974 8899
WEST MELBOURNE
Summit Holden
577 King Street
P: (03) 9329 6611 Fax: (03) 9329 1550

Vic. Country

ALEXANDRA
Alexandra Total Automotive Services
120 Grant Street
P: (03) 5772 1588 Fax: (03) 5772 1978
ARARAT
David Reid Motors
High Street
P: (03) 5352 4100 Fax: (03) 5352 4388
BAIRNSDALE
The Big Garage
628 Princes Highway
P: (03) 5152 4131 Fax: (03) 5152 5313
BALLARAT
Ballarat Holden
211 Gillies Street
P: (03) 5339 9333 Fax: (03) 5339 9202
BENALLA
Arnott's Motors
88~90 Bridge Street
P: (03) 5762 2500 Fax: (03) 5762 1586
BENDIGO
Ron Poyser Holden
Cnr High & Myrtle Streets
P: (03) 5442 3999 Fax: (03) 5442 7766
CAMPERDOWN
Camperdown Auto Parts
96 Manifold Street
P: (03) 5593 1983 Fax: (03) 5593 1979
CASTERTON
Coxons Holden
139 Henty Street
P: (03) 5581 1166 Fax: (03) 5581 2116
CHARLTON
Walsh Motors, Charlton
70~74 High Street
P: (03) 5491 1444 Fax: (03) 5491 1984

AUSTRALIAN HOLDEN RETAILERS cont.

COBRAM
Neville Mustica Motors
Murray Valley Hwy
P: (03) 5872 1666 Fax: (03) 5872 1920
COHUNA
Hare Motors Holden
105~107 King George Street
P: (03) 5456 4488 Fax: (03) 5456 4448
COLAC
Parker Bros. Motor Co
224 Murray Street
P: (03) 5231 5533 Fax: (03) 5231 3853
DAYLESFORD
K.R. Little
Vincent Street
P: (03) 5348 2248
DONALD
O.A. Shilton & Sons Pty Ltd
5 Woods Street
P: (03) 5497 1400 Fax: (03) 5497 1505
ECHUCA
Echuca Motors
1 Nothern Highway
P: (03) 5482 1522 Fax: (03) 5480 6215
EUROA
Parker Bros Auto Co. Euroa
37~41 Clifton Street
P:(03) 5795 2702 Fax: (03) 5795 1288
GEELONG
R & B Smith Holden
510 Moorabool Street
P: (03) 5222 2888 Fax: (03) 5221 3114
GEELONG
Winter & Taylor Holden
23 Cavendish Street
P: (03) 5222 1811 Fax: (03) 5221 1873
HAMILTON
Bloods of Hamilton
210 Gray Street
P: (03) 5572 1433 Fax: (03) 5571 1182
HASTINGS
John Collins Holden
2041 Frankston-Flinders Road
P: (03) 5979 4433 Fax: (03) 5975 4720
HOPETOUN
Hopetoun Motors
78 Lascelles Street
P: (03) 5083 3143 Fax: (03) 5083 3290
HORSHAM
Ivan Morrow Motors Pty Ltd
22 O'Callaghans Parade
P: (03) 5382 0185 Fax: (03) 5382 0459
KANIVA
Kaniva Motors
82 Commercial Street
P: (03) 5392 2300 Fax: (03) 5392 2589
KOO WEE RUP
G & J Light Mechanical Repairs P/L
Station Road
P: (03) 5997 1325
KORUMBURRA
Peter Dunlevie Holden
42 Commercial Street
P: (03) 5655 1288 Fax: (03) 5655 1839
KYABRAM
D'Alberto Holden
60 McEwen Road
P: (03) 5852 1366 Fax: (03) 5852 1337
KYNETON
Mollison Motors Pty Ltd
167 Mollison Street
P: (03) 5422 3377 Fax: (03) 5422 3501
LEONGATHA
Gleeson Holden
37~43 Bair Street
P: (03) 5662 2361 Fax: (03) 5655 1839
MANSFIELD
Martin's Garage
52~54 Chenery Street
P: (03) 5775 2610 Fax: (03) 5775 1179
MARYBOROUGH
Graham Jacka Holden
35 Nolan Street
P: (03) 5461 1011 Fax: (03) 5461 4789
MILDURA
Stuart & Harrison (Sales) Pty Ltd
24~40A Deakin Avenue
P: (03) 5023 0051 Fax: (03) 5021 3076
MURRAYVILLE
Peers Motors
McKenzie Street
P: (03) 5095 2081 Fax: (03) 5095 2054
NHILL
Ivan Morrow Motors Pty Ltd
71~73 Nelson Street
P: (03) 5391 1333 Fax: (03) 5391 1228
PORTLAND
Reynolds of Portland
Henty Highway
P: (03) 5523 1688 Fax: (03) 5523 6299
ROCHESTER
Bruce Hocking Motors Pty Ltd
85 Lowry Street
P: (03) 5484 1455 Fax: (03) 5484 1140
RUTHERGLEN
Jasper Bros Pty Ltd
62 Main Street
P: (02) 6032 8404 Fax: (02) 6032 8156
SALE
Sam Gould Holden
29~33 Foster Street
P: (03) 5144 3944 Fax: (03) 5144 6289

AUSTRALIAN HOLDEN RETAILERS cont.

SEYMOUR
Neil Beer Holden
49 Emily Street
P: (03) 5792 2777 Fax: (03) 5792 4111
SHEPPARTON
Parker Bros. Auto Co.
182-196 Benalla Road
P: (03) 5822 2666 Fax: (03) 5831 2507
STAWELL
Howden Holden
72~74 Longfield Street
P: (03) 5358 1888 Fax: (03) 5358 3954
SWAN HILL
Swan Hill Holden
94~102 Campbell Street
P: (03) 5033 1800 Fax: (03) 5032 2468
TALLANGATTA
Crispin Motors
21 Towong Street
P: (02) 6071 2414 Fax: (02) 6071 2655
TERANG
W. Christian (Terang) Pty Ltd
6a Baynes Street
P: (03) 5592 1588 Fax: (03) 5592 1481
TIMBOON
Timboon Motors
56 Bailey Street
P: (03) 5598 3007 Fax: (03) 5598 3362
TRARALGON
Colin Watson Holden
Princes Highway
P: (03) 5175 7000 Fax: (03) 5175 0050
UNDERBOOL
A.J. Gloster & Sons
Cotter Street
P: (03) 5094 6291 Fax: (03) 5094 6297
WANGARATTA
Alan Capp (New Cars) Pty Ltd
29 Tone Road
P: (03) 5721 2133 Fax: (03) 5721 4626
WARRACKNABEAL
Amor Motors Aubrey Truck Sales
33 Woolcock Street
P: (03) 5394 1055 Fax: (03) 5398 1904
WARRAGUL
Barry Bourke Warragul
167 Queen Street
P: (03) 5622 0000 Fax: (03) 5622 0333
WARRNAMBOOL
Callaghan Motors Pty Ltd
133~137 Fairy Street
P: (03) 5561 8700 Fax: (03) 5561 8740
WODONGA
McRae White Motors
182 Melbourne Road
P: (02) 6056 2333 Fax: (02) 6024 7899
WONTHAGGI
Wonthaggi Holden
2 Murray Street
P: (03) 5672 1122 Fax: (03) 5672 4141
YARRAM
John Palmer Holden
150 Commercial Road
P: (03) 5182 5122 Fax: (03) 5182 6166
YARRAWONGA
Pigdons
155 Belmore Street
P: (03) 5743 1577 Fax: (03) 5744 1788

Qld. Metropolitan

ASPLEY
Zupps Aspley Pty Ltd
1454 Gympie Road
P: (07) 3246 8000 Fax: (07) 3246 8092
BOOVAL
Ross Llewellyn Holden
246 Ipswitch Road
P: (07) 3282 2922 Fax: (07) 3282 6359
BROWNS PLAINS
Zupps Hillcrest
Cnr Anzac Ave & Corporate Place, Hillcrest,
P: (07) 3802 4000 Fax: (07) 3802 4099
CAPALABA
Oldfield Holden
103 Redland Bay Road
P: (07) 3245 2200 Fax: (07) 3245 2221
HILLCREST
Zupps Hillcrest
Cnr Anzac Avenue and Corporate Place
P: (07) 3802 4000 Fax: (07) 3802 4099
INDOOROOPILLY
Westpoint Holden
440 Moggill Road
P: (07) 3878 0440 Fax: (07) 3375 9735
IPSWICH
Ross Llewellyn Holden
246 Brisbane Road
P: (07) 3282 2922 Fax: (07) 3282 6359
LAIDLEY
Buhse's Garage
5 Spicer Street
P: (07) 5465 1406 Fax: (07) 5465 1706
MOOROOKA
John Sivyer Holden
1060 Ipswich Road
P: (07) 3892 3344 Fax: (07) 3848 8866

AUSTRALIAN HOLDEN RETAILERS cont.

MT. GRAVATT
Zupps Motors Pty Ltd
1310 Logan Road
P: (07) 3877 0000 Fax: (07) 3877 0063
NEWSTEAD
Eagers Holden
95 Breakfast Creek Road
P: (07) 3364 1199 Fax: (07) 3364 1060
PETRIE
Village Motors
1059 Gympie Road
P: (07) 3285 2244 Fax: (07) 3285 1975
REDCLIFFE
Village Holden
425 Elizabeth Avenue
P: (07) 3883 0900 Fax: (07) 3883 2711
SPRINGWOOD
Motorama Holden
3455 Pacific Highway
P: (07) 3804 4888 Fax: (07) 3208 7018
WINDSOR
Eagers Holden
143 Newmarket Road
P: (07) 3357 6711 Fax: (07) 3357 5403
WOOLLOONGABBA
Armstrong Holden
73 Ipswich Road
P: (07) 3891 5522 Fax: (07) 3891 5146
WYNNUM
Doug Barton Holden
200 Tingal Road
P: (07) 3396 7777 Fax: (07) 3393 3593

Qld. Country

ATHERTON
Redding Motors Pty Ltd
2 Cook Street
P: (07) 4091 1344 Fax: (07) 4091 2039
AYR
Honeycombes Sales & Service
213~217 Queen Street
P: (07) 4783 2344 Fax: (07) 4783 9250
BEAUDESERT
Zupps Beaudesert
57 Brisbane Street
P: (07) 5541 2000 Fax: (07) 5541 3368
BILOELA
Andersons Auto City
Dawson Highway
P: (07) 4992 2833 Fax: (07) 4992 3066
BOWEN
McDermott Holden
98 Herbert Street
P: (07) 4786 1430 Fax: (07) 4786 2903
BUNDABERG
Ross Gray Holden
Takalvan Street
P: (07) 4150 1333 Fax: (07) 4150 1318
CABOOLTURE
Beecham Holden
Bribie Island Road
P: (07) 5495 1477 Fax: (07) 5495 2839
CAIRNS
Ireland Holden
227~233 Mulgrave Road
P: (07) 4052 3666 Fax: (07) 4052 3606
CALOUNDRA
Caloundra City Holden
45 Caloundra Road
P: (07) 5491 5522 Fax: (07) 5491 8016
CHARTERS TOWERS
Tony Ireland Holden
57 Mosman Street
P: (07) 4787 1177 Fax: (07) 4787 4858
CHINCHILLA
Ainsworth Motors & Machinery Pty Ltd
55 Chinchilla Street
P: (07) 4662 7286 Fax: (07) 4662 7197
DALBY
Johnson's Holden
36 Drayton Street
P: (07) 4662 2422 Fax: (07) 4662 4311
EMERALD
Emerald Holden
Hospital Road
P: (07) 4983 9888 Fax: (07) 4983 9889
GATTON
Gatton Auto Centre
67 Railway Street
P: (07) 5462 1633 Fax: (07) 5462 1980
GLADSTONE
Andersons Auto City
56 Yarroon Street
P: (07) 4972 1177 Fax: (07) 4972 9141
GOONDIWINDI
Goondiwindi Holden
45 Russell Street
P: (07) 4671 0266 Fax: (07) 4671 0288
GYMPIE
Madills Holden
35 Mellor Street
P: (07) 5480 5500 Fax: (07) 5482 2672
HERVEY BAY
Whitaker Holden
96 Torquay Road
P: (07) 4128 1722
INGHAM
Devietti Holden
99 Lannercost Street
P: (07) 4776 1599 Fax: (07) 4776 3547

AUSTRALIAN HOLDEN RETAILERS cont.

INNISFAIL
I.C. Taylor Pty Ltd
117 Edith Street
P: (07) 4061 1577 Fax: (07) 4061 3963
JULIA CREEK
Julia Creek Motors Pty Ltd
Burke Street
P: (07) 4746 7155 Fax: (07) 4746 7197
KILCOY
Hobart’s Garage
58 Mary Street
P: (07) 5497 1204 Fax: (07) 5497 1204
KINGAROY
John Dundas Pty Ltd
79 Kingaroy Street
P: (07) 4162 1722 Fax: (07) 4162 3756
LONGREACH
Longreach Motors
33 Swan Street
P: (07) 4658 1700 Fax: (07) 4658 1857
MACKAY
Pioneer Holden
Cnr Gordon & Wellington Streets
P: (07) 4969 4299 Fax: (07) 4969 4288
MAROOCHYDORE
Sunco Holden
Wises Road
P: (07) 5456 8000 Fax: (07) 5456 8099
MARYBOROUGH
Whitaker Holden
109~111 March Street
P: (07) 4122 2255 Fax: (07) 4122 6222
MOUNT ISA
Bruce Marles Motor City
Marian Street
P: (07) 4743 3044 Fax: (07) 4743 8466
MURGON
Clifton Motors
Macalister Street
P: (07) 4168 1066 Fax: (07) 4168 1947
NAMBOUR
Sunco Holden Nambour
Bruce Highway
P: (07) 5451 2000 Fax: (07) 5451 2099
NANANGO
Nanango Motors Pty Ltd
102 Drayton Street
P: (07) 4163 1108 Fax: (07) 4163 1108
NOOSAVILLE
Madill's
Lot 1 Lionel Donovan Drive
P: (07) 5449 7900 Fax: (07) 5474 0073
PROSERPINE
Crossley Car Sales Whitsunday Pty Ltd
162~164 Main Street
P: (07) 4945 1822 Fax: (07) 4945 2022
ROBINA
Robina Holden
16 Brabham Circuit
P: (07) 5575 0500 Fax: (07) 5562 1072
ROCKHAMPTON
Lawrence’s
327 Richardson Road
P: (07) 4930 5111 Fax: (07) 4930 5112
ROMA
Maranoa Multi Agencies
Bowen Street
P: (07) 4622 2900 Fax: (07) 4622 1832
SOUTHPORT
Lockhart Holden
Cnr Nerang Road & Olsen Avenue
P: (07) 5597 2900 Fax: (07) 5597 2542
SPRINGSURE
Springsure Motors
Eclipse Street
P: (07) 4984 1177 Fax: (07) 4984 1361
ST. GEORGE
Halpin Motors
39~41 Grey Street
P: (07) 4625 5466 Fax: (07) 4625 5855
STANTHORPE
Central Motors
42 Maryland Street
P: (07) 4681 2200 Fax: (07) 4681 1479
TOOWOOMBA
Toowoomba Holden
Cnr James & Hume Streets
P: (07) 4690 0900 Fax: (07) 4690 0909
TOWNSVILLE
Tony Ireland Holden
87~91 Charters Towers Road
P: (07) 4726 7777 Fax: (07) 4721 1486
TULLY
Island Coast Holden
Bruce Highway
P: (07) 4068 1288 Fax: (07) 4068 2145
WARWICK
Deighton Motors Pty Ltd
Grafton Street
P: (07) 4661 2266 Fax: (07) 4661 1275

N.T.

ALICE SPRINGS
Peter Kittle Holden
46 Stuart Highway
P: (08) 8952 5500 Fax: (08) 8953 0847
DARWIN
Kerry Holden
21~25 Stuart Highway
P: (08) 8980 8080 Fax: (08) 8980 8081

AUSTRALIAN HOLDEN RETAILERS cont.

KATHERINE
Wyn Holden
Lot 2399 Victoria Highway
P: (08) (08) 8972 2422 Fax: (08) 8971 0571
TENNANT CREEK
Kittles Holden
Paterson Street
P: (08) 8962 2251 Fax: (08) 8962 2527

S.A. Metropolitan

ADELAIDE
City Holden
221 Grenfell Street
P: (08) 8223 7666 Fax: (08) 8359 2588
ELIZABETH
Peter Page Holden
17 Elizabeth Way
P: (08) 8255 1288 Fax: (08) 8255 9260
GAWLER
Steinborner Holden
Cnr Murray & Bridge Sts
P: (08) 8522 4222 Fax: (08) 8522 4898
HILLCREST
City Holden
327~329 Main North East Road
P: (08) 8261 5855 Fax: (08) 8369 0066
MALVERN
Claridge Holden
361~367 Unley Road
P: (08) 8272 1600 Fax: (08) 8373 0057
PORT ADELAIDE
Smiths of Port Adelaide
271 Commercial Road
P: (08) 8400 7100 Fax: (08) 8400 7155
PROSPECT
Metro Holden
84~88 Main North Road
P: (08) 8343 5000 Fax: (08) 8344 9670
REYNELLA
Southgate Holden
49~59 Main South Road
P: (08) 8381 9555 Fax: (08) 8381 6274
ROSE PARK
City Holden
14 Kensington Road
P: (08) 8334 4666 Fax: (08) 8334 4610
SOMERTON PARK
Hamilton Holden
278~288 Brighton Road
P: (08) 8179 4300 Fax: (08) 8358 3957
THEBARTON
Metro Holden
1 Port Road
P: (08) 8354 9555 Fax: (08) 8443 6855
VALLEY VIEW
Plaza Holden
817~839 North East Road
P: (08) 8263 4922 Fax: (08) 8265 5200

S.A. Country

BALAKLAVA
Balaklava Motors
4 Wallace Street
P: (08) 8862 1030 Fax: (08) 8862 2000
BERRI
Rosenthal Bros Pty Ltd
Vaughan Terrace
P: (08) 8582 3644 Fax: (08) 8582 3515
BORDERTOWN
Farmers Centre
South Terrace
P: (08) 8752 0266 Fax: (08) 8752 0233
CEDUNA
Beck Motors Pty Ltd
Poynton Street
P: (08) 8625 2616 Fax: (08) 8625 3201
CLARE
Mid North Motor Company Pty Ltd
7 Old North Road
P: (08) 8842 2200 Fax: (08) 8842 2886
CLEVE
Pringles Ag. Plus
Rudall Road
P: (08) 8628 2150 Fax: (08) 8628 2537
CRYSTAL BROOK
Crouch Rural Pty Ltd
26 Brandis Street
P: (08) 8636 2257 Fax: (08) 8636 2088
KADINA
J.H. Rosewarne Pty Ltd
Graves Street
P: (08) 8821 1111 Fax: (08) 8821 1686
KEITH
Farmers Centre
McBain Street
P: (08) 8755 3222 Fax: (08) 8755 3211
KINGSTON
Lecornu's Service Garage
Agnes Street
P: (08) 8767 2424 Fax: (08) 8767 2533
LOXTON
Flight Motors Pty Ltd
Bookpurnong Terrace
P: (08) 8584 7277 Fax: (08) 8584 5937
MINLATON
Southway
9 Fifth Street
P: (08) 8853 2322 Fax: (08) 8853 2451

AUSTRALIAN HOLDEN RETAILERS cont.

MENINGIE
Peter Hood Holden
Cnr Princes Highway & Coonalpyn Road
P: (08) 8575 1109 Fax: (08) 8575 1537
MT. BARKER
Gilbert Motors
57 Adelaide Road
P: (08) 8391 1500 Fax: (08) 8398 2124
MT. GAMBIER
O.G. Roberts & Co
Jubilee Highway West
P: (08) 8724 1111 Fax: (08) 8724 1100
MURRAY BRIDGE
Dutton Motors Pty Ltd
7 Adelaide Road
P: (08) 8532 1999 Fax: (08) 8531 0599
NARACOORTE
Kingcraig Motors Pty Ltd
158~164 Smith Street
P: (08) 8762 1555 Fax: (08) 8762 1806
PORT AUGUSTA
Augusta Motor Company Pty Ltd
38 Stirling Road
P: (08) 8641 0488 Fax: (08) 8642 4300
PORT LINCOLN
City Motors
King Street
P: (08) 8682 1100 Fax: (08) 8682 4734
PORT PIRIE
Spencer Holden
50 Ellen Street
P: (08) 8632 3888 Fax: (08) 8632 6405
RENMARK
Rosenthal Motors Pty Ltd
Ral Ral Avenue
P: (08) 8586 6626 Fax: (08) 8586 4040
TANUNDA
Hage & Co Pty Ltd
50 Murray Street
P: (08) 8563 2123 Fax: (08) 8563 3488
VICTOR HARBOR
Southern Motors Holden
5 Victoria Street
P: (08) 8552 1255 Fax: (08) 8552 2788
WAIKERIE
Riverside Holden
6 Crush Terrace
P: (08) 8541 2900 Fax: (08) 8541 3325
WHYALLA
McLeods Whyalla Motor Company
64 Essington Lewis Avenue
P: (08) 8645 7388 Fax: (08) 8645 5512
YORKETOWN
Southway Holden
Minalaton Road
P: (08) 8852 1322 Fax: (08) 8852 1271

W.A. Metropolitan

CANNINGTON
Brian Gardner Holden
1308~1324 Albany Hwy
P: (08) 9356 9000 Fax: (08) 9458 9144
FREMANTLE
Shacks Holden
64 Queen Victoria Street
P: (08) 9432 9432 Fax: (08) 9432 9456
GOSNELLS
Gibbons Holden
2325 Albany Highway
P: (08) 9398 2211 Fax: (08) 9398 5683
MELVILLE
Melville Holden
532~540 Canning Highway
P: (08) 9333 5333 Fax: (08) 9333 5300
MIDLAND
Goldy Holden
161 Great Eastern Highway
P: (08) 9274 8000 Fax: (08) 9274 6042
MORLEY
Metro Motors Holden
212 Walter Road West
P: (08) 9449 3522 Fax: (08) 9449 3596
OSBORNE PARK
North City Holden
Cnr Scarborough Beach Rd & Harborne St
P: (08) 9273 2222 Fax: (08) 9273 2220
PERTH
City Motors
505 Newcastle Street
P: (08) 9422 7777 Fax: (08) 9422 7630
ROCKINGHAM
Rockingham Holden
20 Smeaton Way
P: (08) 9550 9550 Fax: (08) 9550 9599
VICTORIA PARK
Youngs Holden
529 Albany Highway
P: (08) 9449 9449 Fax: (08) 9449 9494
WANNEROO
Phoenix Holden
5 Berriman Drive
P: (08) 9409 9200 Fax: (08) 9309 2140

W.A. Country

ALBANY
Albany City Holden
92~98 Earl Street
P: (08) 9842 8000 Fax: (08) 9841 8623

AUSTRALIAN HOLDEN RETAILERS cont.

BRIDGETOWN
Kordics Bridgetown
183 Hampton Street
P: (08) 9761 1377 Fax: (08) 9761 2151
BROOKTON
Coote Motors
1 Robinson Road
P: (08) 9642 1108 Fax: (08) 9642 1003
BROOME
Norwest Holden
7 McPherson Street
P: (08) 9192 1277 Fax: (08) 9193 5249
BUNBURY
Bunbury Holden
3 Sandridge Road
P: (08) 9791 3899 Fax: (08) 9791 2990
BUSSELTON
Fennessy's
4~8 Bussel Hwy
P: (08) 9752 1577 Fax: (08) 9752 4080
CARNAMAH
T & H Walton Stores Pty Ltd
Robertson Street
P: (08) 9951 1130 Fax: (08) 9951 1082
CARNARVON
North West Autos
229 Robinson Street
P: (08) 9941 1159 Fax: (08) 9941 1363
COLLIE
Station Motors
84 Throssell Street
P: (08) 9734 1855 Fax: (08) 9734 1913
ESPERANCE
Dempster Holden
Norseman Road
P: (08) 9071 1155 Fax: (08) 9071 3799
GERALDTON
Young Motors
34 Cathedral Avenue
P: (08) 9921 1088 Fax: (08) 9964 1157
HARVEY
Stockman Holden
111 Uduc Road
P: (08) 9729 3333 Fax: (08) 9729 1140
KALGOORLIE
Golden City Holden
114 Boulder Road
P: (08) 9021 1699 Fax: (08) 9021 5737
KARRATHA
Moxham Motors
Lot 4551 Balmoral Road
P: (08) 9144 1225 Fax: (08) 9144 1258
KATANNING
Edwards Holden
159 Clive Street
P: (08) 9821 2388 Fax: (08) 9821 2429
KELLERBERRIN
Dowding Motors
1 Mitchell Street
P: (08) 9045 4141 Fax: (08) 9045 4466
KUNUNURRA
Argyle Holden
Lot 231 Bloodwood Drive
P: (08) 9168 2236 Fax: (08) 9169 1124
MANDURAH
Mandurah Holden
53 Pinjarra Rd
P: (08) 9535 8777 Fax: (08) 9535 8822
MANJIMUP
Manjimup Automotive Services
Pritchard Street
P: (08) 9771 1388 Fax: (08) 9777 1214
MOORA
Frank Lewis Holden
92 Gardiner Street
P: (08) 9651 1408 Fax: (08) 9651 1724
NARROGIN
Edwards Motors
126 Ferderal Street
P: (08) 9881 5555 Fax: (08) 9881 5500
NORTHAM
Withnell Motors
58 Fitzgerald Street
P: (08) 9622 5073 Fax: (08) 9622 3664
WAGIN
Edwards Motors
3 Ranford Street
P: (08) 9861 2666 Fax: (08) 9861 2622

NEW ZEALAND HOLDEN RETAILERS

Auckland Metropolitan

GLENFIELD
Giltrap Holden
150 Wairau Road
P: (09) 444 8114 Fax: (09) 444 8008

HENDERSON
West City Holden
435 Great North Road
P: (09) 836 0097 Fax: (09) 836 6612

MANUKAU
Davie Motors Limited
58 Cavendish Drive
P: (09) 262 1012 Fax: (09) 262 1011

NEWMARKET
Schofield & Co. Limited
50 Great South Road
P: (09) 520 6369 Fax: (09) 524 1500

PANMURE
Moyes Motor Group Limited
500-510 Ellerslie/Panmure Highway
P: (09) 527 1200 Fax: (09) 527 8314

……

ALEXANDRA
Currie Motors
65 Centennial Avenue
P: (03) 448 6989 Fax: (03) 448 9384

AMBERLEY
Arthur Burke Limited
Markham Street
P: (03) 314 8121 Fax: (03) 314 8281

ASHBURTON
Smallbone Brothers Limited
Cnr. Burnett & Cass Streets
P: (03) 307 9028 Fax: (03) 307 9212

BLENHEIM
Wadsco Motors Limited
55-59 Scott Street
P: (03) 578 5199 Fax: (03) 578 2572

CHRISTCHURCH
Blackwell Motors Limited
Cnr. Cashell/Madras Streets
P: (03) 379 5500 Fax: (03) 379 5666

DUNEDIN
Cooke Howlison Limited
484 Andersons Bay Road
P: (03) 456 0570 Fax: (03) 455 5668

DARGAVILLE
Marcel Motors Limited
34 Victoria Street
P: (09) 439 7399 Fax: (09) 439 7399

GISBORNE
Enterprise Cars (1992) Limited
323 Gladstone Street
P: (06) 867 8368 Fax: (06) 867 1280

GRACEFIELD
Cable Price (NZ) Ltd
3 Tunnel Grove
P: (04) 568 4289 Fax: (04) 568 9699

HAMILTON
Ebbett Waikato Limited
204-208 Anglesea Street
P: (07) 838 0949 Fax: (07) 838 3380

HASTINGS
Deakin Motors
Omahu Road
P: (06) 879 7176 Fax: (06) 879 7698

HASTINGS
Karamu Holden
Cnr. Karamu Road & Albert Street
P: (06) 876 6700 Fax: (06) 876 6664

HAWERA
Moller Johnson Motors (Hawera) Limited
39-49 Regent Street
P: (06) 278 7166 Fax: (06) 278 5054

INVERCARGILL
GWD-Russells Limited
18-24 Yarrow Street
P: (03) 218 2149 Fax: (03) 218 3309

KAIKOHE
Bay Motors Limited
Wihongi Street
P: (09) 401 1860 Fax: (09) 401 0883

KAITAIA
Jim Crene Motors Limited
Melba Street
P: (09) 408 1310 Fax: (09) 408 1311

LEVIN
Horowhenua Motor Co. Limited
1-11 Exeter Street
P: (06) 368 7169 Fax: (06) 368 8536

LOWER HUTT
Brendan Foot Motors Limited
16-20 Railway Avenue
P: (04) 587 0005 Fax: (04) 566 2311

MASTERTON
Wagg & Harcombe Limited
87-93 Dixon Street
P: (06) 377 5169 Fax: (06) 378 8840

MATAMATA
Matamata Motor Group Limited
2 Arawa Street
P: (07) 888 7059 Fax: (07) 888 5709

NEW ZEALAND HOLDEN RETAILERS cont.

MORRINSVILLE
Nicholson United Autos
328 Thames Street
P: (07) 889 7042 Fax: (07) 889 3529

MOUNT MAUNGANUI
Transport Commercial (Tauranga) 1997 Ltd
116 Hewletts Road
P: (07) 574 5393 Fax: (07) 575 0403

NAPIER
Karamu Holden
Cnr Wellesley Rd & Thakeray St
P: (06) 874 3033 Fax: (06) 834 1454

NELSON
Nelson Bays Holden
2 Selwyn Place
P: (03) 545 7222 Fax: (03) 545 6057

NEW PLYMOUTH
Auto City
86 Molesworth Street
P: (06) 758 0919 Fax: (06) 758 5330

OAMARU
North Otago Motor Group Limited
24-30 Severn Street
P: (03) 434 5099 Fax: (03) 434 9983

OTOROHANGA
Pat Prescott Limited
205 Maniapoto Street
P: (07) 873 7119 Fax: (07) 873 7156

PAEROA
Linn Motors Limited
10-12 Belmont Road
P: (07) 862 8715 Fax: (07) 862 8711

PAHIATUA
Jones Motors Limited
30-34 Main Street
P: (06) 376 7524 Fax: (06) 376 7192

PALMERSTON NORTH
Robertson Motors
200 Rangitikei Street
P: (06) 358 1062 Fax: (06) 359 0303

PARAPARAUMU
Guy Weaver's Auto Village
2-6 Ihakara Street
P: (04) 298 8089 Fax: (04) 298 7186

PUKEKOHE
Counties Motorcourt Limited
Cnr. Edinburgh & Tobin Streets
P: (09) 238 3259 Fax: (09) 238 3298

ROTORUA
Shorland Slater Limited
79 Old Taupo Road
P: (07) 348 3179 Fax: (07) 347 1503

STRATFORD
Ansford Johnson Limited
369 Broadway
P: (06) 765 6119 Fax: (06) 765 7410

TAUPO
Taupo Holden
50 Ruapehu Street
P: (07) 378 4130 Fax: (07) 378 0357

TAUMARANUI
Turaki Motors Limited
Hakiaha Street
P: (07) 895 7009 Fax: (07) 895 8909

TAURANGA
Ebbett Tauranga
Cnr. Wharf Street & Cameron Road
P: (07) 578 2843 Fax: (07) 578 6044

TE AROHA
Summit Motor Co. Limited
Kenrick Street
P: (07) 884 8174 Fax: (07) 884 8133

TE AWAMUTU
Rosetown Motors Limited
Cnr. Churchill & Mahoe Streets
P: (07) 871 5143 Fax: (07) 871 5045

TE PUKE
Bob Batchelor Motors Limited
Jellicoe Street
P: (07) 573 9781 Fax: (07) 573 6057

THAMES
Linn Motors
429 Pollen Street
P: (07) 868 9591 Fax: (07) 868 9595

TIMARU
Hervey Motors Limited
6 Sefton Street
P: (03) 684 7179 Fax: (03) 684 7176

UPPER HUTT
Twin Lakes Motor Company
769 Fergusson Drive
P: (04) 528 5609 Fax: (04) 527 8390

WANGANUI
Bob Burgess Motors Limited
1-5 Purnell Street
P: (06) 345 5588 Fax: (06) 345 5584

WELLINGTON
Williams & Adams
15-27 Abel Smith Street
P: (04) 801 6777 Fax: (04) 385 7437

WHAKATANE
Harts Limited
1 Bracken Street
P: (07) 308 6334 Fax: (07) 307 1536

NEW ZEALAND HOLDEN RETAILERS cont.

WHANGAREI
Mark Cromie Holden
5-13 Hannah Street
P: (09) 438 3199 Fax: (09) 438 3615

CHAPTER 10

Tow and load

Page

10-2 Loading the vehicle
10-3 Heavy objects
10-4 Roof racks
10-4 Towing
10-5 Tow ball load
10-5 Gas cylinders
10-6 Safe towing tips

LOADING THE VEHICLE

Overloading is a safety hazard and could also shorten the life of your vehicle or its parts.

Carrying capacity

The recommended carrying capacity including occupants and luggage is:

- 463 kg Barina 2 door model.
- 451 kg Barina 4 door model.
- 408 kg Barina SRi model.
- 745 kg Combo model (provided the load is distributed towards the front axle).

If you load your vehicle other than to the above recommendations or have accessories fitted, then you should ensure that the maximum rear axle load and the gross vehicle mass are not exceeded.

Kerb weight

The kerb weights shown below are for the weight of an unloaded vehicle with a full tank of fuel.

Note: The vehicle weights listed are estimates based on preproduction vehicles and although correct at the time of printing, are subject to change. When the actual weight of a particular vehicle is required, have the vehicle weighed on a suitable weighbridge.

BARINA

- 1062 kg = kerb weight for 2 door model, manual transmission.
- 1147 kg = kerb weight for 2 door SRi model, manual transmission.
- 1082 kg = kerb weight for 2 door model, automatic transmission.
- 1099 kg = kerb weight for 4 door model, manual transmission.
- 1119 kg = kerb weight for 4 door model, automatic transmission.

Note: Subtract 25 kg if the vehicle is not fitted with air conditioning.

COMBO

- 1200 kg = kerb weight for 2 door model, manual transmission.
- 1170 kg = vehicle not fitted with air conditioning.

LOADING THE VEHICLE cont.

Gross Vehicle Mass (weight)

The Gross Vehicle Mass (GVM) is the maximum that a vehicle is allowed to weigh when fully loaded. This must include any luggage, passengers, roof rack load and a full tank of fuel. The maximum, allowable weight for your vehicle is:

- 1525 kg = GVM for 2 door models with manual transmission.
- 1550 kg = GVM for 4 door models with manual transmission.
- 1545 kg = GVM for 2 door models with automatic transmission.
- 1570 kg = GVM for 4 door models with automatic transmission.
- 1555 kg = GVM for 2 door SRi model (manual transmission).
- 1945 kg = GVM for Combo model (manual transmission).

Note: Subtract 25 kg (Combo: subtract 30 kg) if the vehicle is not fitted with air conditioning.

Maximum rear axle load

The maximum allowable rear axle load for your vehicle is:

- 760 kg = Barina.
- 1110 kg = Combo.

Heavy objects

Place heavy objects in the load compartment as far forward as possible against the front seat backrests. When stacking objects, place heavier objects at the bottom.

Note: Unsecured objects in the luggage / load compartment can be thrown forward with great force during heavy braking or in an accident.

ROOF RACKS AND TOWING

Roof racks

For safety reasons and to avoid damaging the roof, only the roof rack approved for your vehicle by Holden, should be used.

WARNING:

The maximum allowable roof load is 100 kg (including the roof rack weight).

Roof rack loads alter the handling of a vehicle due to a change in the centre of gravity. When carrying loads on the roof rack, avoid abrupt swerving or sharp steering. The load should be evenly distributed and you should not drive faster than 120 km/h.

Include the weight on the roof rack when working out the maximum vehicle load (GVM). Treat the roof rack load as luggage.

Towing

BARINA

WARNING:

This vehicle is not designed or intended to be used for towing. Towing may affect handling, durability and economy.

COMBO

This vehicle is designed primarily as a passenger vehicle, so handling, durability and economy may be affected by towing a caravan or a trailer. Before attempting any towing, ensure that the correct equipment and any necessary modifications are fitted and that the maximum towing capacity is not exceeded.

The towing capacity when trailer brakes are fitted is 1000 kg and when trailer brakes are not fitted is 450 kg.

In higher elevations and / or mountainous terrain, you should reduce the maximum towing and loading limits.

Note: Holden towing equipment is recommended where available. Where it is not available, no recommendation is made as to the make of equipment which should be used. Holden does not accept liability for defects occurring in towing equipment that is not marketed by Holden or for defects arising from the use of such equipment or for loss or injury caused by use of such equipment.

The use of such equipment may void your New Vehicle Warranty to the extent that Holden considers the non-recommended equipment affects the specifications or quality of your Holden vehicle.

TOWING cont.

Tow ball load

The tow ball load is the weight on the tow ball when the packed trailer / caravan is hitched. It must be within the following specifications:

- Loaded trailer weighing up to 625 kg – at least 4% of the loaded trailer weight but not more than 10%.
- Loaded trailer weighing over 625 kg – at least 25 kg but not more than 10% of the loaded trailer weight.

The tow ball load can be adjusted by correctly packing the trailer / caravan load. If the tow ball load is too light or too heavy, the steering and handling of the vehicle can be greatly impaired.

However, aim for the maximum rather than minimum tow ball load.

When measuring the tow ball load, make sure that the drawbar of the loaded trailer / caravan is at the same height as it will be when it is mounted on the vehicle. This is particularly important for trailers / caravans with tandem axles.

WARNING:

Gas cylinders can leak, creating a risk of fire or explosion. As a precaution, ensure adequate ventilation when carrying gas cylinders. They must be restrained from rolling around, and where possible, placed in the load area of the vehicle.

It is recommended that if gas cylinders are frequently transported that a purpose built carrying compartment be used. Transportation of gas cylinders is regulated by legislation in some states.

SAFE TOWING TIPS

- Your vehicle will handle differently when towing. It is a good idea to make a couple of short distance trips with the trailer / caravan before you set off on a long trip.
- Have your vehicle correctly maintained and serviced.
- Have your trailer / caravan maintained and serviced with particular attention given to the condition of the brakes, tyres, suspension, wheel bearings, towing coupling and lighting.
- Have an extended-arm mirror fitted on both sides of your vehicle.
- Headlight aim may need adjusting after the load has been hitched, particularly if a load equalising hitch is not used.
- When descending steep hills, use a lower gear rather than your brakes.
- If your trailer / caravan moves off the road behind you, allow the left wheels of your vehicle to move off as well. When it is safe to do so, carefully steer back on to the road. A sudden attempt to steer back on to the road could make you swerve dangerously.
- When towing, do not exceed 80 km/h.
- When heavily loading your vehicle or when towing, inflate your tyres to the maximum recommended pressure.
- Secure loads so that they cannot slip and place them in the centre of the trailer / caravan if possible, that is, above the axle.
- Trailer brakes are recommended on trailers / caravans which weigh over 500 kg when loaded.
- The brakes on the trailer / caravan must be designed to cope with the braking requirements under all towing conditions without adversely affecting the brakes on the vehicle.
- Make sure that you have enough room when cornering and avoid sudden manoeuvres.
- In the case of trailers / caravans with low directional stability, it is advisable to use a stabiliser to dampen the rolling motion.
- The cooling fan is driven electrically and so is not dependant on engine speed. At high engine speeds a lot of heat is produced and at low engine speeds correspondingly less heat is produced. For this reason, when driving uphill, do not shift down into a lower gear (which will increase engine speed) whenever the vehicle can still climb the hill in the higher gear.
- Whenever a tow bar is removed, be certain to have any mounting holes in the vehicle underbody properly sealed to prevent the possible entry of exhaust fumes, dust and water.
- Ensure that the tow bar does not obscure the rear licence plate. If necessary, remove the tow bar tongue when it is not required for towing.
- If starting off on hills in a vehicle with manual transmission, the most favourable engine speed is between 2000 and 3000 rpm.

Notes

CHAPTER
11

Cleaning

Page

INTERIOR CLEANING

11-2 Upholstery
11-2 Vinyl (PVC) fabrics
11-3 Cloth fabrics
11-3 Carpet
11-3 Seat belts
11-3 Interior glass

EXTERIOR CLEANING

11-4 Paint inspection
11-4 Washing
11-5 Grease, oil and tar spots
11-6 Polishing
11-6 Wheels
11-7 Exterior glass
11-8 Cleaning products

INTERIOR CLEANING

WARNING:

Many cleaners are toxic, flammable or can damage the interior of your vehicle. When cleaning the interior, avoid volatile cleaners such as acetone, lacquer thinners, enamel reducers, nail polish removers. Also avoid cleaners such as laundry soaps, bleaches or reducing agents. Never use carbon tetrachloride, gasoline or naphtha for any cleaning purpose.

Be sure the vehicle is well ventilated while using any cleaners and always follow the cleaner manufacturer's recommendations.

Care and cleaning of upholstery

Dust and dirt accumulates on upholstery and should be removed with a vacuum cleaner every few weeks; more often with constant driving. Before attempting to remove spots and stains, it is necessary to determine:

- The type of fabric.
- The nature and age of the stain.
- The effect of the stain removal agent upon the colour, structure and general appearance of the upholstery.

Remove stains as soon as possible. If they are allowed to remain on the fabric for any length of time, they very often become oxidised or set and removal becomes difficult, if not impossible.

Cleaning Vinyl (PVC) coated fabrics

PVC-coated fabrics are used for seating and auxiliary trimming. Fabric grades vary according to their function. PVC fabrics are generally made by coating fabric with synthetic resins. Taking care of PVC fabric is relatively simple, but important.

Wipe over the surface with a dry cloth during the regular cleaning of the vehicle.

Should dirt accumulate and become embedded in the material pattern, do the following:

1. Using lukewarm water and soap or Holden Velour Fabric and Vinyl Cleaner, work up thick suds on a piece of cheesecloth and apply to the surface. Use a soft bristle brush to remove stubborn stains or dirt embedded in the grain of the material.
2. Repeat using only a damp cloth (no soap).
3. Wipe dry with a soft cloth. The above cleaning instructions also apply to the rubber floor mats.

INTERIOR CLEANING cont.

Cleaning cloth trim

To clean seats upholstered with cloth, observe the following instructions:

- Remove loose dirt and dust with a vacuum cleaner or soft brush.
- Do not use a whisk broom or a coarse hair brush.
- If normal soiling takes place, sponge the fabric lightly with warm water containing a detergent and a small amount of ammonia. Next, rub the fabric lightly and, if necessary, sponge again to remove stubborn stains. Soak up excess fluid with a dry cloth. Clean the fabric sparingly using Holden Velour Fabric and Vinyl Cleaner.

Vehicles with airbags

Use only a dry cloth or mild cleaner to clean the steering wheel and instrument panel. Do not use any aggressive cleaning agents.

Cleaning carpet

Thoroughly brush or vacuum the carpet. In many instances the carpet requires no further cleaning. If the carpet is extremely soiled, thoroughly vacuum it to remove loose dirt then, using Holden Velour Fabric and Vinyl Cleaner, clean approximately one square foot at a time. After each area is cleaned, remove as much of the cleaner as possible with a vacuum cleaner.

Cleaning seat belts

Clean seat belts with a mild non-abrasive soap and lukewarm water. After washing, thoroughly sponge the soap out of the belts.

WARNING:

Do not bleach or dye seat belts as this can severely weaken them.

Cleaning interior glass

Clean the interior glass area of the vehicle with Holden Glass Cleaner and a clean soft cloth. Take care not to damage the demister when cleaning inside the rear window.

Never use abrasive cleaners on any vehicle glass, as they may cause scratches.

CARING FOR PAINT

To help preserve your vehicle's new finish, give special attention to treating those conditions that can damage the paint. Conditions include:

Road bloom: Oils, dirt, exhaust and other pollutants may combine to affect the paint finish if they are allowed to build up over a long period of time.

Etching: Tree sap, bird droppings, salt water and other natural deposits can leave etching or scarring if allowed to stay on the paint.

Pitting: Tar spots and some industrial fallout can react chemically and may cause pitting to the surface of the paint.

Paint inspection

Regularly inspect the vehicle for scratch marks, cracks or damaged areas, all of which could develop rust. Repair any deep scratches, cracks or breakdown immediately.

Take care to ensure any rust is repaired immediately otherwise rust 'creep' will extend beyond the damaged area. This occurs particularly in tropical or coastal areas, where the moist or salt-laden air accelerates rusting.

The paint finish of the vehicle gives a very high degree of protection against the weather, but be aware that wear and deterioration occurs when the vehicle is exposed to the elements for prolonged periods.

Park the vehicle in a garage whenever possible.

To prevent damage of the paint surface, remove foreign matter immediately. Foreign matter such as bird droppings should be removed within 24 hours due to the acidity.

Washing your vehicle

The easiest way to keep the paint looking as new is to keep it clean. A wash once a week will keep your vehicle in good condition. However, it must be washed correctly.

Note:

- Never use an automatic wash that requires anything touching the paint (other than water).
- Wash your vehicle once a week to remove build up of any grime on the paint.
- Never wash your vehicle in direct sunlight; find a shady spot to wash your vehicle.

1. Wet the vehicle thoroughly from top to bottom with plenty of cold water (in accordance with current water restrictions, if any). This removes any grit or other loose particles and substances. Do not use a sponge or cloth at this stage.
2. Fill a bucket with lukewarm water and add no more than two capsful of gentle detergent. Do not use hot water, strong soap or chemical detergents.
3. To remove bird droppings, soak the area with a wet sponge for several minutes before washing off. If this does not work, use a solution of one litre of water and 110 grams of dissolved baking soda (bicarbonate of soda). Rinse with clean water.
4. Starting with the roof, use a clean sponge to clean a small section at a time. Do not allow liquid to dry before rinsing it off with clean water. When you have completed each section, rinse the whole vehicle again with cold water.
5. Dry the clean vehicle thoroughly with a good quality chamois.

CARING FOR PAINT cont.

WARNING:

Take care when moving the vehicle after washing, in case water has affected the brakes. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with a clear area ahead, until brake performance returns to normal.

Removing stains, such as grease, oil and tar spots Washing your vehicle regularly ensures most harmful substances deposited on the paint are removed before they can cause permanent damage. However, some substances are difficult to remove. If you notice stains on the paint, ensure you remove them at the earliest possible opportunity.

Grease, oil, and even fresh tar can be removed from the paint with a little kerosene or turpentine. As a precaution against staining, wash and polish the area as soon as possible after the stain has been removed.

A rubbing or cutting compound can be used after a normal wash. Do not do this on a regular basis as it removes paint.

WARNING:

- **Some chemical cleaners used for removing road oils and tars from painted surfaces are detrimental to automotive paint.**
- **If petrol is spilt on the paint when refilling, flush it off immediately with clean water, as petrol has a tendency to stain or soften new paint finish during the weathering out period, particularly when the vehicle is exposed to high temperatures.**
- **Do not use petrol to clean any painted or plastic surfaces.**

Ventilation system intake

The intake area between the bonnet and windscreen may collect leaves, which impairs air flow into the vehicle.

Clear this area of debris whenever you wash your vehicle.

Washing under the vehicle

Once a year, preferably before the start of the cold season, the PVC coating should be checked and if necessary, restored to perfect condition.

Commercial bitumen and rubber materials can damage PVC coating. Have all work on the underbody performed by a Holden Retailer, as it requires knowledge of the specified materials and experience concerning their application.

Wash the underbody following the end of the cold weather season to remove any dirt adhering to the underbody, since this may also contain salt.

PAINT POLISHING, WHEELS AND TYRES

Polishing

Under normal circumstances the paint does not need polishing to retain its shine; a weekly wash is sufficient. However, the use of a Polymer Glaze approximately every three months reduces the effects of road bloom by removing natural contaminants that can build up on the paint.

Note: Do not attempt to apply a polish without first washing the vehicle to remove loose grit, surface dirt, dust and grease.

Tyres

Sponging with cold water is sufficient for normal tyre cleaning. Oil and grease should be removed with soap and water or detergent.

For tar or other substances, use a mild abrasive, such as mechanic’s hand soap or kitchen cleaning powder. Thoroughly rinse the tyres.

Do not use petrol to clean tyres.

Original or 'new' tyre look can be restored using Holden Tyre and Bumper Shine.

Alloy wheels (if fitted)

To preserve the original appearance of alloy wheels, keep them clean and free from road dirt. Use Holden Wheel Cleaner for cleaning alloy wheels. Do not use abrasive cleaners on alloy wheels.

EXTERIOR GLASS CLEANING

Glass cleaning – general

Avoid scratching the glass. If the glass is cleaned at the same time as the rest of the vehicle, particles of grit may cause fine scratches. Flush off any mud on the glass when washing the body, but leave the final cleaning and polishing until afterwards.

Use Holden Glass Cleaner and wash each section of the glass in turn, making sure that the water, its container and the sponge are clean and free from grit. Old linen cloth is better than new material for polishing glass.

Windscreen

Always keep the windscreen clean so the wiper blades are as effective as possible. Old wiper blades can cause scratches and should be regularly inspected and replaced if necessary.

Never use abrasive cleaners to clean glass as they can cause scratches, impairing night vision. After the windscreen has been cleaned with a wet sponge wipe it with a soft, lint free cloth or chamois. It is recommended that Holden Optikleen be added to the windscreen washer reservoir.

Wiper blades

Oil and road scum thrown up on the windscreen will cause smearing when the wipers are switched on. Many owners do not clean the wiper blades, despite cleaning the windscreen. Consequently, the smearing of the glass reappears as soon as the wiper blades are next used, as dirt accumulates in the blades.

Clean the blades by lifting them off the windscreen and cleaning with Holden Optikleen and a clean cloth.

Note: Do not operate the wiper blades by hand as this may damage the wiper drive mechanism.

If using the wiper blades to clean dust and dirt from the windscreen in dry conditions, always use the washer system first to wet the windscreen. Ensure that the windscreen washer reservoir is not empty.

Should the wiper blades freeze to the windscreen, lift them off by hand before switching on the wipers.

CLEANING PRODUCTS

PART NUMBER	SIZE	DESCRIPTION	USAGE
92145132	237 ml	Quick and Easy Speed Finish	Seals in a deep, lustrous glazed finish. Long life protection from oxidation, salt and weather damage.
92145418	437 ml	Quick and Easy Speed Finish	Seals in a deep, lustrous glazed finish. Long life protection from oxidation, salt and weather damage.
92145130	237 ml	All Purpose Cleaner	Cleans and deodorises velour, most vinyl upholstery, hood linings, mats and carpets.
92145416	437 ml	All Purpose Cleaner	Cleans and deodorises velour, most vinyl upholstery, hood linings, mats and carpets.
92145133	237 ml	Glass Cleaner	Cleans all glass surfaces.
92145419	437 ml	Glass Cleaner	Cleans all glass surfaces.
92140005	500 ml	Optikleen	Windscreen washer solvent.
92140004	5 ml	Optikleen Sachet	Windscreen washer solvent; one sachett per washer bottle refill.
92145129	237 ml	Hi Suds Car Wash	Cleans vehicle exterior.
92145415	437 ml	Hi Suds Car Wash	Cleans vehicle exterior.
92145131	237 ml	Vinyl and Trim Dressing	Seals and protects vinyl upholstery and plastic trim.
92145417	437 ml	Vinyl and Trim Dressing	Seals and protects vinyl upholstery and plastic trim.
92145140	120 ml	Leather Revitaliser	Revitalises the leather upholstery.
92145141	120 ml	Leather Cleaner	Cleans the leather upholstery.
92145142	120 ml	Leather Protector	Protector the leather upholstery.
92145143	1 Kit	Leather Care Kit	Contains leather revitaliser, cleaner and protector.
92145135		Chamois	Cloth for wiping off excess water from the vehicle's exterior after washing and rinsing.
92145134		Handle Grip Sponge	Sponge for washing the vehicle.
92145136		Microfibre Glass Cleaning Cloth	Cloth for cleaning all glass surfaces.
92145137		Microfibre General Purpose Cleaning / Polishing Cloth	Cloth for general purpose cleaning / polishing.

CHAPTER 12

Servicing

Page

12-2 Service intervals
12-3 Service light
12-4 Additional service requirements
12-6 Maintenance schedule
12-8 Service times
12-9 Service coupons

SERVICE INTERVALS

When it comes to service, remember that your Holden Retailer has the trained personnel and specialised equipment to correctly service your vehicle. Your Retailer invites you to return for all your service needs both during and after the warranty period.

The safety, economy, emission control, performance and reliability of your vehicle cannot be assured unless regular maintenance is performed, preferably by factory-trained technicians at Holden Retailers.

Therefore, it is in the owner's interest that the following services are performed at the specified distance or months (whichever occurs first).

1500 km	- 1 month inspection
15 000 km	- 1 year
30 000 km	- 2 years
45 000 km	- 3 years
60 000 km	- 4 years
75 000 km	- 5 years
90 000 km	- 6 years
105 000 km	- 7 years
120 000 km	- 8 years
135 000 km	- 9 years
150 000 km	- 10 years
165 000 km	- 11 years
180 000 km	- 12 years

The one month (1500 kilometres) inspection will be performed without cost for labour by the Selling Retailer.

This service may be carried out by another Holden Retailer provided you have a letter of Introduction from the Selling Retailer.

Your Retailer will supply the necessary letter of Introduction upon request.

The services shown in this schedule between 15 000 km and 180 000 km are to be performed after 180 000 km at the same intervals.

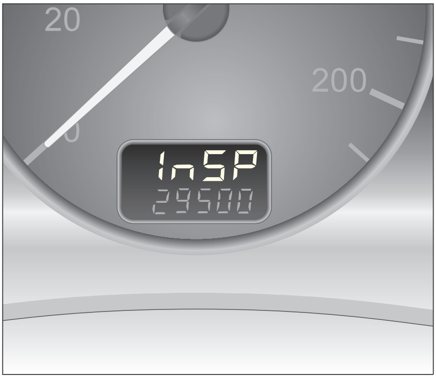
Note: All maintenance services as listed in this Handbook and replacement of service items are the responsibility of the owner and as such are not considered, under the provisions of the New Vehicle Warranty to be rectification of defective material and workmanship. Items such as wheel alignment, necessary adjustments to drive belts, transmission, clutch and park brake, for example, or any other items which may require servicing due to fair wear and tear will be carried out at the owner's cost.

Damage caused by failure to have proper maintenance services carried out by an authorised Holden Retailer or authorised Service Outlet or in accordance with Holden specifications, may void your New Vehicle Warranty. It is important that you read the New Vehicle Warranty in Chapter 9 so you are aware of any Warranty exclusions.

Service coupons are provided further on in this chapter. When each service is performed the coupon is removed so that the following service coupon is readily visible to remind you when the next service is due.

After the service is completed, the owner should check that the service has been validated, by the Retailer stamping and signing the coupon stub. This is important as it will not only assist in the determination of Warranty Claims, but will enhance the value of the vehicle when selling.

SERVICE LIGHT



A small window in the speedometer is used for the odometer, tripmeter and the service reminder.

The service reminder displays **InSP** (inspection required) for a few seconds when the ignition is turned on if the vehicle is within 500 km or one week of the next service.

Note: The service reminder light is not designed to show for the first 1500 km / 1 month service. It is designed to display after every 15 000 km or one year.

When the vehicle is taken in for service, your Retailer will reset the reminder.

The service reminder can be reset by the driver as follows:

1. Turn the ignition off.
2. Press and hold the reset button while turning on the ignition.
3. Keep the reset button held down until the flashing **InSP** display changes to '**- - - -**' (approximately two more seconds).
4. Release the reset button.

   The odometer and tripmeter reappear.

ADDITIONAL SERVICE REQUIREMENTS

If your vehicle operates under any of the extreme conditions listed in the following table it is recommended that some items be serviced more frequently than the intervals specified in the Maintenance Plan.

Note: The extra services listed below need only be used if your vehicle operates continuously under the conditions specified.

If you operate under any of these conditions on a one off basis, for example a holiday trip, then an extra service should be for that period only.

As a guide, if you operate continually for a period of one month or 1000 km under any of the extreme conditions, then Holden recommends additional services.

If at any time it is considered that the following items or other items should be more frequently serviced due to the type of operation or before a long trip, discuss the situation with the service manager of your Holden Retailer.

Change automatic transmission fluid @ 60 000 km or four years (whichever comes first)	A	B	C
Replace engine oil and filter @ 5000 km or three months (whichever comes first)	A		
Air cleaner element - replace @ 30 000 km or two years (whichever comes first)			C
Pollen filter - replace @ 15 000 km or one year (whichever comes first)			C
Fuel filter - replace @ 30 000 km or two years (whichever comes first)			C

A = Stop-start driving, excessive idling or low speed operation as experienced in inner city driving. For example, taxi, police or door to door delivery.

B = Caravan or trailer towing.

C = Extended heavy load high speed operation in temperatures above 35ºC.

ADDITIONAL SERVICE REQUIREMENTS cont.

SPECIAL SERVICE FOR ADDITIONAL SERVICE REQUIREMENTS

Date .... km ....

Items performed: ....

....

....

....

Servicing Retailer ....

SPECIAL SERVICE FOR ADDITIONAL SERVICE REQUIREMENTS

Date .... km ....

Items performed: ....

....

....

....

Servicing Retailer ....

SPECIAL SERVICE FOR ADDITIONAL SERVICE REQUIREMENTS

Date .... km ....

Items performed: ....

....

....

....

Servicing Retailer ....

SPECIAL SERVICE FOR ADDITIONAL SERVICE REQUIREMENTS

Date .... km ....

Items performed: ....

....

....

....

Servicing Retailer ....

SPECIAL SERVICE FOR ADDITIONAL SERVICE REQUIREMENTS

Date .... km ....

Items performed: ....

....

....

....

Servicing Retailer ....

SPECIAL SERVICE FOR ADDITIONAL SERVICE REQUIREMENTS

Date .... km ....

Items performed: ....

....

....

....

Servicing Retailer ....

MAINTENANCE SCHEDULE

Use odometer reading or years, whichever occurs first														
	x 1000 km	1.5	15	30	45	60	75	90	105	120	135	150	165	180
	or years	1/12	1	2	3	4	5	6	7	8	9	10	11	12
SERVICE ITEMS														
COOLANT - check level, check coolant %		1/12	1	2	3	4		6	7	8	9		11	12
COOLANT - replace							5					10		
DRIVE BELTS - check			1	2	3	4	5	6	7	8	9	10	11	12
BARINA: ENGINE TOOTHED BELT and TENSIONER ASSEMBLY - replace						4				8				12
COMBO: ENGINE TOOTHED BELT and TENSIONER ASSEMBLY - replace										8				
BARINA: IDLER PULLEYS - inspect						4								12
IDLER PULLEYS - replace										8				
AIR CLEANER paper element - replace						4				8				12
SPARK PLUGS - replace						4				8				12
FUEL FILTER - replace				2		4		6		8		10		12
ENGINE OIL AND FILTER - replace			1	2	3	4	5	6	7	8	9	10	11	12
AUTO TRANS - check fluid level				2		4		6		8		10		12
AUTO TRANS - fluid change			Fluid not changed for life of vehicle unless operating in extreme conditions.											
LEAKAGE - visual check of engine and transmission		1/12	1	2	3	4	5	6	7	8	9	10	11	12
LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check		1/12	1	2	3	4	5	6	7	8	9	10	11	12
WINDSCREEN WIPE/WASH system check fluid level and blade condition		1/12	1	2	3	4	5	6	7	8	9	10	11	12
DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate			1	2	3	4	5	6	7	8	9	10	11	12

MAINTENANCE SCHEDULE cont.

Use odometer reading or years, whichever occurs first														
	x 1000 km	1.5	15	30	45	60	75	90	105	120	135	150	165	180
	or years	1/12	1	2	3	4	5	6	7	8	9	10	11	12
SERVICE ITEMS														
HEADLIGHT ADJUSTMENT - check			1	2	3	4	5	6	7	8	9	10	11	12
BODY/UNDERBODY - check corrosion protection		1/12	1	2	3	4	5	6	7	8	9	10	11	12
BRAKES - check pad thickness			1	2	3	4	5	6	7	8	9	10	11	12
BRAKES, PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check		1/12	1	2	3	4	5	6	7	8	9	10	11	12
RUBBER BOOTS - check		1/12	1	2	3	4	5	6	7	8	9	10	11	12
WHEELS - check wheel nut torque, tyre condition and tyre pressure		1/12	1	2	3	4	5	6	7	8	9	10	11	12
BRAKE AND CLUTCH FLUID - change				Change every 2 years (regardless of km)										
BRAKE FLUID LEVEL - check			1	2	3	4	5	6	7	8	9	10	11	12
POLLEN FILTER - replace				2		4		6		8		10		12
REMOTE CONTROL BATTERY - replace				2		4		6		8		10		12
ROAD TEST and reset service due light		1/12	1	2	3	4	5	6	7	8	9	10	11	12
SERVICE LABOUR TIMES														
BARINA		-	1.1	1.6	1.5	3.2	1.8	1.6	1.5	3.2	1.5	1.9	1.5	3.2
COMBO		-	1.1	1.6	1.5	1.6	1.8	1.6	1.5	3.2	1.5	1.9	1.5	1.6

SERVICE TIMES

The owner will be charged for all lubricants and materials used plus labour at the times recommended on the coupon.

The repair or replacement of any part found faulty during a service check and not covered by Holden Warranty will be added to the charges.

Where any deficiencies are noted, such items should be reported to the owner / operator so that the extra work required can be authorised.

The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended; their use will not only increase operating costs, but may indeed be harmful to your vehicle.

1500 km or 1 month Inspection Validation

This vehicle has been thoroughly checked in accordance with the 1,500 km/one month inspection.

Retailer ....

Service Manager's signature ....

Date .... Odometer reading ....

1500km or 1 month INSPECTION

Holden invites the new owner of this vehicle to return to the selling Dealer for a free service inspection at 1500 km.

Owner's Name Mr. / Mrs. / Miss. / Other........... ....

Address ....

Town ....

State .... Postcode ....

Reg. no. .... Engine no ....

ISOVIN .... Model ....

Odometer reading .... Date of Acquisition ....

Selling Dealer's Stamp & Signature ....

This vehicle has been thoroughly checked in accordance with the items on the reverse side of this voucher.

This inspection is provided free of charge.

Servicing Dealer's Stamp & Signature

Servicing Dealer ....

Town .... State ....

Owner's signature

☐ COOLANT - check fluid level, check coolant %

☐ LEAKAGE - visual check of engine and trans

☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check

☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition

☐ BODY/UNDERBODY - check corrosion protection

☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check

☐ RUBBER BOOTS - check

☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure

☐ ROAD TEST

15 000 km or 1 year Service Validation

Servicing Retailer ....

Brake fluid changed: YES/NO

Date of Service ....

Odometer ....

Signed ....

Additional services performed: ....

....

....

....

....

15 000 km
or
1 year

SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.1 hours

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....

....

....

Signature ....

Date ....

- ☐ COOLANT - check level, check coolant %
- ☐ DRIVE BELTS - check
- ☐ ENGINE OIL AND FILTER - replace
- ☐ LEAKAGE - visual check of engine and trans
- ☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ☐ HEADLIGHT ADJUSTMENT - check
- ☐ BODY/UNDERBODY - check corrosion protection
- ☐ BRAKES - check pad thickness
- ☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ☐ RUBBER BOOTS - check
- ☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ☐ BRAKE FLUID LEVEL - check
- ☐ ROAD TEST AND RESET SERVICE DUE LIGHT

30 000 km
or
2 years

SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.6 hours labour
- add 0.2 hours if brake/clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....

....

....

Signature ....

Date ....

30 000 km or 2 year Service Validation

Servicing Retailer ....

Brake fluid changed: YES/NO

Date of Service ....

Odometer ....

Signed ....

Additional services performed: ....

....

....

....

....

☐ COOLANT - check level, check coolant %

☐ DRIVE BELTS - check

☐ FUEL FILTER - replace

☐ ENGINE OIL AND FILTER - replace

☐ AUTO TRANS - check fluid level.

☐ LEAKAGE - visual check of engine and trans

☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check

☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition

☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate

☐ HEADLIGHT ADJUSTMENT - check

☐ BODY/UNDERBODY - check corrosion protection

☐ BRAKES - check pad thickness

☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check

☐ RUBBER BOOTS - check

☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure

☐ BRAKE FLUID LEVEL - check

☐ POLLEN FILTER - replace

☐ REMOTE CONTROL BATTERY - replace

☐ ROAD TEST AND RESET SERVICE DUE LIGHT

☐ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

45 000 km or 3 years Service Validation

Servicing Retailer ....

Brake fluid changed: YES/NO

Date of Service ....

Odometer ....

Signed ....

Additional services performed: ....

....

....

....

....

---

45 000 km or 3 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours labour
- add 0.2 hours if brake/clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....

....

....

Signature ....

Date ....

☐ COOLANT - check level, check coolant %

☐ DRIVE BELTS - check

☐ ENGINE OIL AND FILTER - replace

☐ LEAKAGE - visual check of engine and trans

☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check

☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition

☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate

☐ HEADLIGHT ADJUSTMENT - check

☐ BODY/UNDERBODY - check corrosion protection

☐ BRAKES - check pad thickness

☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check

☐ RUBBER BOOTS - check

☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure

☐ BRAKE FLUID LEVEL - check

☐ ROAD TEST AND RESET SERVICE DUE LIGHT

☐ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

60 000 km or 4 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- BARINA: 3.2 hours labour
- COMBO: 1.6 hours labour
- add 0.2 hours if brake/clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....

....

....

Signature ....

Date ....

---

60 000 km or 4 years Service Validation

Servicing Retailer.....................
Brake fluid changed: YES/NO
Date of Service ....
Odometer ....
Signed ....

Additional services performed: ....
....
....
....
....

- ☐ COOLANT - check level, check coolant %
- ☐ DRIVE BELTS - check
- ☐ BARINA: ENGINE TOOTHED BELT and TENSIONER ASSEMBLY - replace
- ☐ BARINA: IDLER PULLEYS inspect
- ☐ AIR CLEANER paper element - replace
- ☐ SPARK PLUGS - replace
- ☐ FUEL FILTER - replace
- ☐ ENGINE OIL AND FILTER - replace
- ☐ AUTO TRANS - check fluid level.
- ☐ LEAKAGE - visual check of engine and trans
- ☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ☐ HEADLIGHT ADJUSTMENT - check
- ☐ BODY/UNDERBODY - check corrosion protection
- ☐ BRAKES - check pad thickness
- ☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ☐ RUBBER BOOTS - check
- ☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ☐ BRAKE FLUID LEVEL - check
- ☐ POLLEN FILTER - replace
- ☐ REMOTE CONTROL BATTERY - replace
- ☐ ROAD TEST AND RESET SERVICE DUE LIGHT

- ☐ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

75 000 km or 5 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.8 hours labour
- add 0.2 hours if brake/clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....

....

....

Signature ....

Date ....

---

75 000 km or 5 years Service Validation

Servicing Retailer ....

Brake fluid changed: YES/NO

Date of Service ....

Odometer ....

Signed ....

Additional services performed: ....

....

....

....

....

- ☐ COOLANT - replace
- ☐ DRIVE BELTS - check
- ☐ ENGINE OIL AND FILTER - replace
- ☐ LEAKAGE - visual check of engine and trans
- ☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ☐ HEADLIGHT ADJUSTMENT - check
- ☐ BODY/UNDERBODY - check corrosion protection
- ☐ BRAKES - check pad thickness
- ☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ☐ RUBBER BOOTS - check
- ☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ☐ BRAKE FLUID LEVEL - check
- ☐ ROAD TEST AND RESET SERVICE DUE LIGHT

- ☐ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

90 000 km
or
6 years
SERVICE
COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.6 hours labour
- add 0.2 hours if brake/clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....

....

....

Signature ....

Date ....

---

90 000 km or
6 years
Service
Validation

Servicing Retailer ....
Brake fluid changed: YES/NO
Date of Service ....
Odometer ....
Signed ....

Additional services performed: ....
....
....
....
....

☐ COOLANT - check level, check coolant %

☐ DRIVE BELTS - check

☐ FUEL FILTER - replace

☐ ENGINE OIL AND FILTER - replace

☐ AUTO TRANS - check fluid level.

☐ LEAKAGE - visual check of engine and trans

☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check

☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition

☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate

☐ HEADLIGHT ADJUSTMENT - check

☐ BODY/UNDERBODY - check corrosion protection

☐ BRAKES - check pad thickness

☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check

☐ RUBBER BOOTS - check

☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure

☐ BRAKE FLUID LEVEL - check

☐ POLLEN FILTER - replace

☐ REMOTE CONTROL BATTERY - replace

☐ ROAD TEST AND RESET SERVICE DUE LIGHT

☐ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

105 000 km or 7 years Service Validation

Servicing Retailer ....
Brake fluid changed: YES/NO
Date of Service ....
Odometer ....
Signed ....

Additional services performed: ....
....
....
....
....

105 000 km or 7 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours labour
- add 0.2 hours if brake/clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....
....
....

Signature ....

Date ....

- ☐ COOLANT - check level, check coolant %
- ☐ DRIVE BELTS - check
- ☐ ENGINE OIL AND FILTER - replace
- ☐ LEAKAGE - visual check of engine and trans
- ☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ☐ HEADLIGHT ADJUSTMENT - check
- ☐ BODY/UNDERBODY - check corrosion protection
- ☐ BRAKES - check pad thickness
- ☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ☐ RUBBER BOOTS - check
- ☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ☐ BRAKE FLUID LEVEL - check
- ☐ ROAD TEST AND RESET SERVICE DUE LIGHT

- ☐ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

120 000 km or
8 years
Service
Validation

Servicing Retailer ....

Brake fluid changed: YES/NO

Date of Service ....

Odometer ....

Signed ....

Additional services performed: ....

....

....

....

....

---

120 000 km or 8 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 3.2 hours labour
- add 0.2 hours if brake/clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....

....

....

Signature ....

Date ....

☐ COOLANT - check level, check coolant %

☐ DRIVE BELTS - check

☐ ENGINE TOOTHED BELT, TENSIONER ASSEMBLY - replace

☐ IDLER PULLEYS - replace

☐ AIR CLEANER paper element - replace

☐ SPARK PLUGS - replace

☐ FUEL FILTER - replace

☐ ENGINE OIL AND FILTER - replace

☐ AUTO TRANS - check fluid level.

☐ LEAKAGE - visual check of engine and trans

☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check

☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition

☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate

☐ HEADLIGHT ADJUSTMENT - check

☐ BODY/UNDERBODY - check corrosion protection

☐ BRAKES - check pad thickness

☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check

☐ RUBBER BOOTS - check

☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure

☐ BRAKE FLUID LEVEL - check

☐ POLLEN FILTER - replace

☐ REMOTE CONTROL BATTERY - replace

☐ ROAD TEST AND RESET SERVICE DUE LIGHT

☐ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

135 000 km or 9 years Service Validation

Servicing Retailer ....
Brake fluid changed: YES/NO
Date of Service ....
Odometer ....
Signed ....

Additional services performed: ....
....
....
....
....

135 000 km or 9 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours labour
- add 0.2 hours if brake/clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....
....
....

Signature ....

Date ....

☐ COOLANT - check level, check coolant %

☐ DRIVE BELTS - check

☐ ENGINE OIL AND FILTER - replace

☐ LEAKAGE - visual check of engine and trans

☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check

☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition

☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate

☐ HEADLIGHT ADJUSTMENT - check

☐ BODY/UNDERBODY - check corrosion protection

☐ BRAKES - check pad thickness

☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check

☐ RUBBER BOOTS - check

☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure

☐ BRAKE FLUID LEVEL - check

☐ ROAD TEST AND RESET SERVICE DUE LIGHT

☐ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

150 000 km or 10 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.9 hours labour
- add 0.2 hours if brake/clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....

....

....

Signature ....

Date ....

---

150 000 km or 10 years Service Validation

Servicing Retailer....................
Brake fluid changed: YES/NO
Date of Service ....
Odometer ....
Signed ....

Additional services performed: ....
....
....
....
....

☐ COOLANT - replace

☐ DRIVE BELTS - check

☐ FUEL FILTER - replace

☐ ENGINE OIL AND FILTER - replace

☐ AUTO TRANS - check fluid level.

☐ LEAKAGE - visual check of engine and trans

☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check

☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition

☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate

☐ HEADLIGHT ADJUSTMENT - check

☐ BODY/UNDERBODY - check corrosion protection

☐ BRAKES - check pad thickness

☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check

☐ RUBBER BOOTS - check

☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure

☐ BRAKE FLUID LEVEL - check

☐ POLLEN FILTER - replace

☐ REMOTE CONTROL BATTERY - replace

☐ ROAD TEST AND RESET SERVICE DUE LIGHT

☐ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

165 000 km or 11 years Service Validation

Servicing Retailer ....
Brake fluid changed: YES/NO
Date of Service ....
Odometer ....
Signed ....

Additional services performed: ....
....
....
....
....

165 000 km or 11 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours labour
- add 0.2 hours if brake/clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....
....
....

Signature ....

Date ....

- ☐ COOLANT - check level, check coolant %
- ☐ DRIVE BELTS - check
- ☐ ENGINE OIL AND FILTER - replace
- ☐ LEAKAGE - visual check of engine and trans
- ☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check
- ☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate
- ☐ HEADLIGHT ADJUSTMENT - check
- ☐ BODY/UNDERBODY - check corrosion protection
- ☐ BRAKES - check pad thickness
- ☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check
- ☐ RUBBER BOOTS - check
- ☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ☐ BRAKE FLUID LEVEL - check
- ☐ ROAD TEST AND RESET SERVICE DUE LIGHT

- ☐ BRAKE AND CLUTCH FLUID - Change every 2 years (regardless of km)

180 000 km or 12 years Service Validation

Servicing Retailer ....
Brake fluid changed: YES/NO
Date of Service ....
Odometer ....
Signed ....

Additional services performed: ....
....
....
....
....

180 000 km or 12 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- BARINA: 3.2 hours labour
- COMBO: 1.6 hours labour
- add 0.2 hours if brake/clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

....
....
....

Signature ....

Date ....

☐ COOLANT - check level, check coolant %

☐ DRIVE BELTS - check

☐ BARINA: ENGINE TOOTHED BELT and TENSIONER ASSEMBLY - replace

☐ BARINA: IDLER PULLEYS - inspect

☐ AIR CLEANER paper element - replace

☐ SPARK PLUGS - replace

☐ FUEL FILTER - replace

☐ ENGINE OIL AND FILTER - replace

☐ AUTO TRANS - check fluid level.

☐ LEAKAGE - visual check of engine and trans

☐ LIGHTS, MONITORING, SIGNAL EQUIPMENT AND PARK BRAKE ADJUSTMENT - check

☐ WINDSCREEN WIPE/WASH system - check fluid level and blade condition

☐ DOOR HINGES, DOOR STOP, BONNET LOCK, TAILGATE HINGES - lubricate

☐ HEADLIGHT ADJUSTMENT - check

☐ BODY/UNDERBODY - check corrosion protection

☐ BRAKES - check pad thickness

☐ BRAKE PIPES, BRAKE PRESSURE HOSES, FUEL LINES, EXHAUST AND SUSPENSION - visual check

☐ RUBBER BOOTS - check

☐ WHEELS - check wheel nut torque, tyre condition and tyre pressure

☐ BRAKE FLUID LEVEL - check

☐ POLLEN FILTER - replace

☐ REMOTE CONTROL BATTERY - replace

☐ ROAD TEST AND RESET SERVICE DUE LIGHT

☐ BRAKE AND CLUTCH FLUID - change every 2 years (regardless of km)

INDEX

ABS brakes 4-9
Accidents 6-2
Airbags 6-16
Air conditioning 1-16
Air pressures (tyres) 7-7
Alternator (battery) warning light......1-6
Anchorage points 3-14
Antifreeze fluid 8-2
Appearance care 11-1
Ashtray 1-18
Assist (brake) 4-9
Audible warnings 1-21
Audio system 1-12
Automatic relocking 2-5
Automatic transmission
  Fault mode 4-8
  Fluid level 7-5
  Fluid capacity / type 8-2
  Operation 4-6
  Sports / economy drive 4-6
  Starting-off aid 4-7

Battery
  Fluid level 7-6
  When flat 6-14
  Specifications 8-2
Bonnet release 1-20
Boiling 6-12
Brakes
  ABS 4-9
  Brake assist 4-9
  Fluid level 7-5
  Park brake 3-15
  Precautions 4-9
  Warning light 1-6
Bulbs (replacement) 6-18

Capacities (fluid) 8-2
Carbon monoxide caution 5-2
Carpet cleaning 11-3
CD player 1-12
Central locking 2-4
Certificate 9-2
Change of name / address ...... page 3
Check engine light 1-6
Child safety door locks 2-2
Child restraints 3-12
Cigarette lighter 1-18
Cleaning of vehicle 11-1
Clock 1-19
Cloth fabric cleaning 11-3
Coin holder 3-17
Cooling system
  Fluid level 7-4
  Overheating 6-12
  Temperature gauge 1-5
Courtesy light 6-29
Cruise control 1-22
Cup holder 1-12
Curb weight 10-2
Customer assistance 9-10

INDEX cont.

Dashboard layout 1-2
Date 1-19
Deadlocking 2-4
Dealers (Authorised Holden) 9-12
Demister 1-17
Detergents (cleaning) 11-8
Dimensions 8-3
Dimmer (instrument lighting) 1-5
Dipping (headlights) 1-9
Dipstick 7-3
Dome light
  Bulb replacement 6-29
  Operation 3-15
Door locks 2-3
Driving precautions 4-9

Electric door locks 2-4
Emergency procedure 2-10
Electronic ignition caution 7-2
Electronic immobiliser 2-11
Emergencies 6-1
Emission control system 5-5
Engine
  Coolant level 7-4
  Cooling system 7-4
  Identification number 8-4
  Oil capacity / type 8-2
  Oil level 7-3
  Overheating 6-12
  Specifications 8-2
  Starting 4-2
  Temperature gauge 1-5
  Warning light 1-6
Engine oil
  Capacity 8-2
  Checking levels 7-3
  Pressure light 1-7

Exhaust gas warning 5-2
Exterior cleaning 11-4
Exterior lights 1-9
Extreme operating conditions 12-4
First aid 6-3
Flashers
  Hazard warning 1-11
  Turn signal 1-11
Flat battery 6-14
Flat tyre 6-4
Floor tray 3-18
Fluid capacities 8-2
Fluid levels
  Automatic transmission 7-5
  Battery 7-6
  Brake 7-5
  Coolant 7-4
  Oil 7-3
  Windscreen washer 7-6
Folding seats 3-5
Fog lights 1-10
Front seat adjustment 3-2
Fuel
  Gauge 1-5
  Economy 5-6
  Refuelling 5-3
  Warning light (low fuel) 1-6
Fumes caution 5-2
Fuses 6-30

Gauges 1-4
Gearbox 4-4
General safety 4-3
Generator (battery) warning light 1-6
Glasses holder 3-17
Globe replacement 6-18
Glovebox 3-17
Grease spots (cleaning) 11-5

INDEX cont.

Hand brake 3-15
Hazard warning flashers 1-11
Head restraint 3-3
Heater controls 1-14
Heated rear window 1-17
Headlamps
    Bulb replacement 6-19
    Switch 1-9
Height adjust seat belts 3-10
High beam indicator light................1-7
Holden Dealers 9-12
Holden Customer Assistance 9-10
Holden Retailers 9-12
Hood 1-20
Horn 1-3

Identification numbers 8-4
Ignition switch 1-21
Immobiliser.................................. 2-11
Indicators (turn signals)............... 1-11
Indicator / warning lights 1-6
Infant and child restraints 3-12
Inflation (tyres) 7-7
Information display 1-19
Instrument panel 1-4
Interior cleaning............................ 11-2
Interior (courtesy) light 3-15

Jack 6-4
Jump starting 6-14

Kerb weight 10-2
Keys 2-2

Labels 8-4
Lights
    Bulb replacement 6-18
    Front reading lights 3-16
    Instrument panel........................1-4
    Headlight switch 1-9
    Interior light 3-15
Lights off delay 1-11
Luggage compartment light 3-16
    Rear reading light................... 3-16
Loading information 10-2
Locks
    Bonnet 1-20
    Door 2-3
    Fuel filler 5-3
    Ignition switch 1-21
    Tailgate lock 2-8
Low fuel light 1-6
Lubricants 8-2
Luggage compartment
    Enlargement 3-6
    Light 3-16

Maintenance schedule 12-6
Manual transmission
    Fluid capacity 8-2
    Operation 4-4
Medical assistance 6-3
Mirrors 3-21
Model identifications 8-4

New vehicle running-in.....................4-2
New vehicle warranty 9-2
New Zealand customer assist 9-11
New Zealand retailers 9-27

INDEX cont.

Octane rating (petrol) 5-4
Odometer 1-4
Oil
    Capacity 8-2
    Level 7-3
    Low pressure warning 1-6
Outlets, air 1-13
Outside temperature 1-19
Overheating
    Procedure 6-12
    Temperature warning 1-6
Owner responsibility
    Emission controls 5-5
    Weekly checks 7-1
    Maintenance service 12-1

Paintwork cleaning 11-4
Park brake lever 3-15
Parking 4-3
Parts and accessories warranty 9-4
Petrol filling 5-3
Pen holder 3-17
Plates 8-4
Polishing 11-6
Power locking 2-4
Power steering precaution 4-10
Push starting caution 6-14

Radiator – see Cooling system
Radio 1-12
Reading lights
    Front 3-15
    Rear 3-16
Rear axle load 10-2
Rear door lock 2-8
Rear seat adjustment 3-5
Rear window demister 1-17
Rear window wipe / wash 1-8
Rear vision mirrors 3-21
Reducing fuel consumption 5-6
Refuelling 5-3
Reminder lights 1-6
Remote audio controls 1-12
Remote control 2-6
Remote power door locks 2-4
Restraints
    Child 3-12
    Head 3-3
Retailers (Authorised Holden) 9-12
Roadside assistance 9-8
Roof racks 10-3
Running-in 4-2

INDEX cont.

Safe towing 10-4
Safer driving 4-9
Safety belts 3-9
Safety 4-3
Seat adjustment
    Front 3-2
    Rear 3-5
Seat belts
    Cleaning 11-3
    General information 3-9
    Height adjustment 3-10
Seat folding
    Front 3-5
    Rear 3-5
Serial number 8-4
Service 12-1
Service coupons 12-9
Service light 12-3
Service times 12-8
Servicing intervals 12-2
Snow chains 4-11
Spare wheel 6-4
Specifications 8-1
Speedometer 1-4
Sports / economy drive 4-6
Starting
    Flat battery 6-14
    Normal engine 4-2
Starting-off aid 4-7
Steering, tilt 1-3
Stereo, radio / CD player 1-12
Stop / tail light replacement 6-22
Storage, jack and spare wheel 6-4
Sun-glasses holder 3-17

Tachometer 1-4
Tailgate 2-8
Tank capacity 8-2
Temperature gauge 1-5
Temperature (outside) 1-19
Tilt steering 1-3
Time 1-19
Towing 10-3
Towing precautions 10-4
Towing your car 6-10
Traction control 4-12
Transmission
    Automatic 4-6
    Manual 4-4
Transporting objects 3-7
Tray, floor 3-18
Tripmeter 1-4
Turn signal
    Bulb replacement 6-21
    Operation 1-11
Tyres
    Flat tyre 6-4
    Inflation pressure 7-7
    Placard location 8-5
    Rotation 7-8
    Snow chains 4-11

Upholstery cleaning 11-2

INDEX cont.

Vehicle Identification Number 8-5
Vehicle loading 10-2
Vehicle weights 10-2
Ventilation system 1-13

Warning lights 1-6
Warranty certificate 9-2
Warranty questions and answers .. 9-5
Washer fluid 7-6
Washing 11-4
Weekly checks 7-1
Wheel
    Changing 6-4
    Cleaning 11-6
    Replacement 7-8
Windows 3-19
Windscreen
Wiper / washer
    Control lever 1-8
    Fluid level 7-6
Wiper blades 11-7